

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Kencozeb 750 DF Fungicide
Product Type: Group Y 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 the control of certain fungus diseases of fruit, field crops, tobacco, turf, vegetables and ornamentals as per the Directions for Use Table.

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Mancozeb	8018-01-7	75%w/w
Inert ingredients	secret	to 100%w/w

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Classification: Classified as hazardous according to criteria of Safe Work Australia. Not classified as a Dangerous Good according to the ADG Code.



GHS Signal Word: **WARNING**

Hazard statements:
H317: May cause an allergic skin reaction.
H361: Suspected of damaging the unborn child.
H400: Very toxic to aquatic life..

Prevention:
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves, protective clothing and eye or face protection.

Response:
P281: Use personal protective equipment as required.
P391: Collect spillage.
P363: Wash contaminated clothing before reuse.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.

Disposal: P308 + P313: IF exposed or concerned: Get medical advice/attention.
 P501: Dispose of contents and containers as specified on the registered label.

SUSMP Classification: S5

ADG Classification: N/A

UN Number: N/A

Emergency Overview

Physical Description & colour: Yellow free flowing granule.

Odour: Mild sulfurous odour.

Major Health Hazards: Mancozeb is practically nontoxic via the oral route with reported oral LD₅₀ of greater than 5000 mg/kg to greater than 11,200 mg/kg in rats. Via the dermal route it is practically nontoxic as well, with reported dermal LD₅₀ values of greater than 10,000 mg/kg in rats, and greater than 5000 mg/kg in rabbits. It is a mild skin irritant and sensitizer, and a mild to moderate eye irritant in rabbits. Workers with occupational exposure to Mancozeb have developed sensitization rashes.

Potential Health Effects

Health Effects

Acute:

- Swallowed:** The concentration is of low toxicity if swallowed.
- Eye:** May irritate the eyes.
- Skin:** May cause sensitisation by prolonged skin contact.
- Inhaled:** Inhalation of dust may result in respiratory irritation.

Chronic Effects:

Prolonged exposure to dust or mists containing manganese compounds can cause progressive poisoning. The signs and symptoms are apathy, loss of balance and weakness. More advanced poisoning may show evidence of central nervous system disturbance.

SECTION 4 – FIRST AID MEASURES

Swallowed:	If swallowed DO NOT induce vomiting. Give a glass of water. Seek medical advice if effects persist. If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia)
Skin:	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with 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. If symptoms develop or persist, seek medical advice.
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Advice to Doctor:

Treat symptomatically. Avoid giving alcohol – may cause vomiting and shock.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazards

Dangerous Decomposition or Combustion Products

Thermal Decomposition

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. This product, if scattered, may form flammable or explosive dust clouds in air.

Extinguishing Media

Not Combustible. Use extinguishing media suited to burning materials.

Fire Fighting

If a significant quantity of this product is involved in a fire, call the fire brigade. Do not scatter spilled material with high pressure water jets.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal

Recover the product by sweeping up or vacuuming without raising dust. Collect in sealed open top containers for disposal.

Environmental Precautions

Prevent from entering drains, waterways or sewers.

Clean-up Methods – Large Spillages

Place damaged containers in recovery bins (if available) and return to manufacturer.

SECTION 7 – HANDLING AND STORAGE

Handling

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

When mixing this product always wear a PVC or rubber apron, elbow length PVC gloves, face shield or goggles and overalls buttoned at the wrist and neck.

When spraying this product, wear a face shield or goggles

After each days use, wash gloves, face shield or goggles and overalls.

If product gets on skin, immediately wash area with soap and water.

Storage

Store in the closed, original container in a well-ventilated area as cool as possible out of direct sunlight. Keep from contact with fertilisers and seeds.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards

No exposure standards for this product has been set, however, an exposure standard has been set for manganese, dust and compounds at 1 mg/m³.

Respiratory Protection

Do not inhale spray mist.

Personal Protective Equipment

When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. Re-entry period: Do not enter treated area until spray has dried.

Engineering Controls

Natural ventilation is sufficient when handling concentrate and preparing spray solution.

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:	Free flowing granule
Colour:	Yellow
Odour:	Mild sulfurous odour
Boiling point (°C):	Not available
Melting point (°C):	None – decompose at about 192° C without melting.
Vapour Pressure:	Negligible at normal room temperature
Flashpoint:	Non flammable
Solubility:	Dispersible

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

None known. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

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. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Water. Manganese and zinc compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma convulsion 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 (On Mancozeb technical)

Acute Toxicity – Oral

LD₅₀ for rats: >5000 mg/kg

Acute Toxicity – Dermal

LD₅₀ for rats: > 10000 mg/kg

LD₅₀ for rabbits: > 5000 mg/kg

SECTION 12 – ECOLOGICAL INFORMATION

Acute Toxicity – Birds

LC₅₀ for (mallard duck) is > 10,000mg/kg

LC₅₀ (10d) for Japanese quail is 3200 mg/kg

LC₅₀ for Bobwhite quail is > 10,000 mg/kg

Acute Toxicity - Fish

LC₅₀ for Carp is 4.0 mg/L

LC₅₀ for rainbow trout is 2.2 mg/L

LC₅₀ for golden goldfish is 9.0 mg/L

Acute Toxicity – Other Organisms

Not toxic to bees. LD₅₀ 193 µg/bee.

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

Storage and Transport

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.

UN Number (Sea Transport):

3077

IMO Class/Packing Group:

Class 9; Packing Group III

IMO Marine Pollutant:

Marine Pollutant

IMO Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains mancozeb)

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification S5
Packaging & Labelling 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:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail
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
SUSMP Standard for the Uniform Scheduling of Medicines & Poisons
UN Number United Nations Number
GHS Globally Harmonised System

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