

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Castor 900 WG Fungicide
Product Type: Group M5 Fungicide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: Level 1, 98 Commercial Road, Teneriffe QLD 4005
Telephone Number: (07) 3216 1188
Emergency Telephone Number: 000 (Police or Fire Brigade)
13 11 26 (Poisons Information Centre)
Use: For the control of fungal diseases on almonds, apricots, bananas, carrots, celery, cherries, faba beans, grapes, onions, peaches, peanuts, peas, plums, potatoes, tomatoes and vegetables as per the Directions for Use Table.

SECTION 2 – 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.



Classification of the Hazardous Chemical: Skin sensitization – Category 1
Serious eye damage/eye irritation – Category 1
Acute toxicity (Inhalation) – Category 1
Specific target organ toxicity (Single exposure) – Category 3
Carcinogenicity – Category 2
Hazardous to the aquatic environment, long term – Chronic 1

GHS Signal Word: **DANGER**

Hazard statements: H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H330: Fatal if inhaled.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer.
H410: Very toxic to aquatic life with long lasting effects.
Prevention: P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.

Response:	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	P284: [In case of inadequate ventilation] wear respiratory protection.
	P302+P352: IF ON SKIN: Wash with plenty of soap and water.
	P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P308+P313: IF exposed or concerned: Get medical advice/attention.
	P310: Immediately call a POISON CENTER/doctor/physician.
	P312: Call a POISON CENTER or doctor/physician if you feel unwell.
	P320: Specific treatment is urgent (see FIRST AID on this label)
	P321: Specific treatment (see FIRST AID on this label)
Storage:	P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
	P362+P364: Take off contaminated clothing and wash it before reuse.
Disposal:	P391: Collect spillage.
	P403+P233: Store in a well-ventilated place. Keep container tightly closed.
	P405: Store locked up.
SUSMP Classification:	P501: Dispose of contents/container as specified on the registered label
	S6
	N/A
ADG Classification:	N/A
UN Number:	N/A

Emergency Overview

Physical Description & colour: Light brown granule

Odour: Slightly pungent

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Chlorothalonil	1897-45-6	90%
Inert ingredients	secret	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	Remove to fresh air until recovered. If symptoms persist, seek medical advice.
Skin contact:	Remove contaminated clothing and launder before use. Wash affected areas or skin thoroughly with soap and water. Seek medical advice if irritation develops.
Eye contact:	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical attention.

Ingestion:	If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.
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Advice to Doctor:

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

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. 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

Water fog, foam, carbon dioxide or dry chemical.

Fire Fighting

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

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & Disposal

In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection.

Product spill: Sweep granules and shovel or collect recoverable product into labeled containers for recycling or salvage, and dispose of promptly.

Wash the spill area with detergent and water. Launder protective clothing before storage or re-use.

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 day's 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

Exposure Limits TWA (mg/m³) STEL (mg/m³)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Engineering Controls

This product should only be used in a well-ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Personal Protective Equipment

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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granule
Colour:	Light brown
Odour:	Slightly pungent
Vapour Pressure:	No data
Melting Point:	Chlorothalonil melts about 252 °C
Bulk Density:	No data
Solubility	Dispersible

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability

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.

Hazardous Reaction

Keep away from strong oxidising agents.

Hazardous Polymerization

Hazardous polymerisation is not possible.

Conditions to Avoid

Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data (on Chlorothalonil technical)

Acute Toxicity – Oral

LD₅₀ (rats) = >5000 mg/kg

Acute percutaneous LD₅₀ (rats and albino rabbits) = >5000 mg/kg

Acute Toxicity – Inhalation

LC₅₀ (1h) for rats = 0.52 mg/L air

LC₅₀ (4h) for rats = 0.10 mg/L air

Potential Health Effects

- Inhalation** This product is not harmful. However, product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.
- Skin contact** Available data indicates that this product is not harmful. It should present no hazards in normal use. However, product may be irritating, but is unlikely to cause anything more than mild transient discomfort.
- Eye contact** This product is an eye irritant, Symptoms may include stinging and reddening of eyes and watering which may become copious. If exposure is brief, symptoms should disappear once exposure has ceased.
- Ingestion** Oral irritant. Possible symptoms of exposure include: burning sensation and reddening of skin in mouth and throat.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic Organisms:

Chlorothalonil is very toxic to fish species.

LC₅₀ (96 h, static) Rainbow trout = 39

LC₅₀ (96 h, static) Bluegill sunfish = 59 µg/L

Birds:

LD₅₀ (Bobwhite quail) = >2000 mg/kg

Known Harmful Effects on the Environment

Very toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment. This product is not readily biodegradable.

Persistence /Degradability

This product is moderately persistent. In aerobic soils, the half life is from 1 to 3 months. In very basic water (pH9.0), about 65% of the chlorothalonil was degraded into two major metabolites after 10 weeks.

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

ADG

UN Number: 3077
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains CHLOROTHALONIL)
Class: 9
Packaging group: III
Hazchem: 2X
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.

IMO-IMDG

UN Number: 3077
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains CHLOROTHALONIL)
Class: 9
Packaging group: III
Marine pollutant: Yes

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification S6
Packaging & Labelling POISON
 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	1800 951 288 03 9573 3188