

**POISON**  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**KENSO AGCARE**

**KEN-PAM**

**423**

**FUMIGANT**

**ACTIVE CONSTITUENT: 423 g/L METHAM present as SODIUM SALT**

Pre-planting treatment for control of soil-borne pests as per the  
Directions For Use Table.

Kenso Corporation (M) Sdn Bhd  
Level 1, 98 Commercial Road,  
Teneriffe QLD 4005  
Phone (07) 3216 1188  
[www.kenso.com.au](http://www.kenso.com.au)



**IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE**

**CONTENTS: 1000 Litres APVMA Approval No.: 66164/ 131683**

# KENSO AGCARE KEN-PAM 423 FUMIGANT

## STORAGE AND DISPOSAL:

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

Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.

## Refillable containers (1000L only):

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

## SAFETY DIRECTIONS:

Poisonous if absorbed by skin contact or swallowed. Harmful if inhaled. Will damage the eyes, nose, throat and skin. Repeated exposure may cause allergic disorders. Product interacts with alcohol – avoid alcohol on day of use. Do not inhale vapour or spray mist. The fumes first cause smarting, then watering of eyes. This should be taken as a warning sign. The liquid can cause burns.

Only store in a well ventilated area. When opening the container and preparing product for use, wear chemical resistant clothing buttoned to the neck and wrist, washable hat, elbowlength chemical resistant gloves, chemical resistant footwear, a full facepiece respirator with organic vapour/ gas cartridge or canister. Alternatively, to a full-face respirator wear goggles and a half facepiece respirator. When using the prepared product, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length chemical resistant gloves, chemical resistant footwear and full facepiece respirator with organic vapour/ gas cartridge. Alternatively, to a full-face respirator wear goggles and a half respirator. If clothing becomes contaminated with product, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product enters eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles, respirator and contaminated clothing. If respirator is rubber, wash with detergent and warm water. Do not re-use footwear until thoroughly aired.

## FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766. Avoid giving alcohol. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

## SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which can be obtained from [www.kenso.com.au](http://www.kenso.com.au).

## CONDITIONS OF SALE

Kenso Corporation (M) Sdn. Bhd. will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Kenso Corporation (M) Sdn. Bhd. is limited to the replacement of the goods or (at the option of Kenso Corporation (M) Sdn. Bhd.) the refund of the price paid and where possible sufficient part of the goods to enable proper examination being returned to Kenso Corporation (M) Sdn. Bhd. within thirty days of delivery.

In a Transport Emergency  
Dial **000** Police or Fire Brigade



9 328666 002321



Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: **HARMFUL IF SWALLOWED. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE AN ALLERGIC SKIN REACTION.** Precautionary: Do not breathe dusts or mists. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash contacted areas thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor/physician. Specific treatment (see FIRST AID on this label) Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. Store locked up.

Batch No.:

Date of Manufacture:

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**DIRECTIONS FOR USE**

**Restraints**

DO NOT use by hand directed spraying including sprinkler can.  
 DO NOT treat potting soil by loose mixed or via shredder.  
 DO NOT use by flood irrigation or overhead sprinkler systems.  
 DO NOT apply to dry soil.  
 DO NOT exceed specified rates.  
 DO NOT use in high winds.  
 DO NOT apply in low humidity or when temperature is above 32 °C

SITUATION	PEST CONTROLLED	STATE	RATE	CRITICAL COMMENTS
<b>Sites for seedbeds, Lawns &amp; other limited areas</b>	Germinating Weed Seeds Including Winter Grass, Prince of Wales Feather, Fat Hen, Nematodes, Symphylids (Not Tas.) (Garden Centipede),	All States	25-50L per 50L water per 1000m <sup>2</sup>	SOIL INJECTIONS: Use the higher rate for heavier soils. Injection points or injection nozzles under a blade should be 12cm apart, 10-15 cm deep in a well prepared moist soil. Immediately after injection, compact the soil by rolling. Water lightly to prevent escape of gas. Repeat irrigation after 2-3 days for light soils or soils which crack or dry out quickly. Prevent run-off.
			1.1L per 12L water per 10m <sup>2</sup>	ROTARY TILLER: Spray or sprinkle diluted solution in front of tiller. Roll immediately to compact soil. Lightly water as above.
<b>Field: Application to Total Area</b>	Fungus Diseases Including Rhizoctonia, Pythium, Fusarium, Phytophthora, Verticillium, Sclerotinia and Club Root of Crucifers	NSW, Qld, SA, Vic, WA only	250-500L per 400-700L water per ha	SOIL INJECTION: Use the higher rate for heavier soils. Follow method for injection described under seedbeds.
			400-800L per 700-1000L water per ha	BEDS – SOIL COVERING METHOD: Use the higher rate for heavier soils. Inject or drip into moist soil directly ahead of the bed shaper. Use sufficient water to ensure uniform application. Cover with 7-15cm of moist soil. Immediately roll to compact soil.
			250-500L per 400-700L water per ha	ROTARY TILLER: Spray or sprinkle diluted solution in front of tiller. Roll immediately to compact soil. Irrigate at once with enough water to seal the soil surface. Repeat irrigation after 2-3 days for light soils that crack or dry out quickly.

SITUATION	PEST CONTROLLED	STATE	RATE	CRITICAL COMMENTS
<b>Field: Application to Total Area</b>	Germinating Weed Seeds Including Winter Grass, Prince of Wales Feather, Fat Hen, Nematodes, Symphylids (Not Tas.) (Garden Centipede), Fungus Diseases Including Rhizoctonia, Pythium, Fusarium, Phytophthora, Verticillium, Sclerotinia and Club Root of Crucifers	NSW, Qld, SA, Vic, WA only	600-800L per 900-1100L water per ha	APPROVED ONLY FOR TRICKLE IRRIGATION SYSTEMS designed to apply agricultural chemicals as certified by the manufacturer and under plastic sheeting. Use the higher rate for heavier soils. Use system to give large droplet size. For shallow pests in the top 30cm or less of soil - run system for 5-10 minutes. For next 10-20 minutes inject solution into irrigation system and continue watering until soil is wet as deep as control is needed. Keep moist for 2-3 days for light soils or soils which crack or dry out quickly. For control deeper than 45cm divide recommended dose into three equal parts and apply at intervals during irrigation period.
			250-500L per 400-700L water per ha	ROTARY TILLER: Spray or sprinkle diluted solution in front of tiller. Roll immediately to compact soil. Irrigate at once with enough water to seal the soil surface. Repeat irrigation after 2-3 days for light soils or soils that crack or dry out quickly.
<b>Field: Application to Beds or Rows</b>		All States	250-500L per 400-700L water per ha	SOIL INJECTION: Use the higher rate for heavier soils. Solution may be injected into pre-formed beds or as a band treatment. Follow the instructions for injection above. For a wider treated band space use two or more injection points at intervals of 12cm apart. All methods should be at a depth of 10-15cm.
			400-800L per 700-1000L water per ha	BEDS – SOIL COVERING METHOD: Use the higher rate for heavier soils. Inject or drip into moist soil directly ahead of the bed shaper. Use sufficient water to ensure uniform application. Cover with 7-15cm of moist soil. Immediately roll to compact soil.
			250-500L per 400-700L water per ha	ROTARY TILLER: Spray or sprinkle diluted solution in front of tiller. Roll immediately to compact soil. Irrigate at once with enough water to seal the soil surface. Repeat irrigation after 2-3 days for light soils that crack or dry out quickly.

SITUATION	PEST CONTROLLED	STATE	RATE	CRITICAL COMMENTS
<b>Field: Application to Bed or Rows</b>	Germinating Weed Seeds including Winter Grass, Prince of Wales Feather, Fat Hen, Nematodes, Symphylids (Not Tas.) (Garden	Qld only	250-800L per treated ha	TRICKLE IRRIGATION: Use the higher rate for heavier soils. 5-8 weeks prior to planting soil must be bed-formed with trickle tape and plastic mulch. Thoroughly wet soil to allow weed seed to germinate. Apply Ken-Pam 423 to moist soil by injecting into mainline using a suitable pump sufficient to wet entire root zone. Use a longer injection period for heavier soils. Flush all lines and equipment with clean water after use. Puncture plastic 2 weeks after treatment to allow dissipation of Ken-Pam 423. Heavy nematode infestation may require further treatment prior to second crop. ENSURE INJECTION CAPACITY CAN HANDLE LARGE RATES OR USE SPILT APPLICATIONS.
<b>Blueberries and Rubus spp. berries</b>		All States		
<b>Potting Soil</b>	Centipede), Fungus Diseases including Rhizoctonia, Pythium, Fusarium, Phytophthora, Verticillium, Sclerotinia and Club Root of Crucifers	All States	600mL per m <sup>3</sup> soil mixture	CEMENT MIXER: Mix moist soil thoroughly, adding Ken-Pam 423 to lidded mixer in a well ventilated area. Empty soil into a pile and cover with plastic sheeting to keep in gas.
			1.1L per 12L water per 10m <sup>2</sup>	ROTARY TILLER METHOD: Spread soil smooth not more than depth of 20cm. Apply Ken-Pam 423 over entire surface and till to maximum adjustable depth of tiller. Treat further layers as necessary and seal top layer with water.
<b>Tobacco Plant Bed</b>	Onion Weed	NSW, Qld only	9.75L per 700- 900L water per 100m <sup>2</sup>	TOBACCO SEED BED: Use the higher rate for heavier soils. Apply in Autumn through an approved irrigation system, sprayers or any suitable approved equipment. Follow instructions for seedbeds or plant beds. DO NOT treat tobacco plant beds by hand directed methods.
		WA only	1.1L per 50L water per 5m <sup>2</sup>	SPOT TREATMENT: Spray entire surface area using drenching nozzles.

**NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

#### GENERAL INSTRUCTIONS:

##### Mixing:

After mixing with water do not allow mixture to stand.

##### Application:

Soil should be carefully prepared in advance according to the directions for use. Cultivate the area thoroughly and break up clods. Loosen soil deeply one week in advance of application. Soil should be kept moist until application, and if soil has not crusted in the meantime, re-cultivate lightly. Soil temperature should be in the range 10°-32°C to depth of 8cm. Where fumes become unpleasant spray with water to seal fumes in.

#### INTERVALS FOR CULTIVATION & PLANTING AFTER APPLICATION:

Planting may take place 14-21 days after application if soil is light-medium texture and not excessively wet or cold. A minimum interval of 30 days is necessary where soil texture is heavy, high in organic matter, wet or soil temperature is less than 15°C. A 60 day interval is required if application rate is greater than 1100L/ha. Cultivation should be carried out on wet, heavy soils to prevent crusting and promote drying, 5-7 days after application, and may be repeated when necessary. DO NOT mix treated soils with untreated soils. Sow an indicator crop to test that no toxic Ken-Pam 423 remains in the soil, approximately 7 days before main crop. Lettuce or radish is suitable for this purpose because of their rapid germination process. Check for root damage which will indicate whether or not soil is still toxic.

#### POTTING SOIL:

Heavy potting soil or heavy field soil, including soils high in clay or organic matter, ensure that proper aeration and drying of the soil takes place.

#### PRECAUTIONS:

Workers previously experiencing skin or respiratory tract irritation from exposure to metham-sodium products should not work with metham-sodium products. After mixing with water do not allow mixture to stand as poisonous fumes are released on standing. Workers manually sealing should wear the personal protective clothing specified for applicators.

#### RE-ENTRY PERIOD:

**Field Uses:** Do not allow entry into treated areas for 48 hours. When prior entry is necessary, wear personal protective equipment specified for applicators. Clothing must be laundered after each day's use.

#### GREENHOUSE APPLICATION, INCLUDING UNDER PLASTIC:

Do not allow entry into treated areas for 7 days. When prior entry is necessary, wear personal protective equipment specified for applicators. Clothing must be laundered after each day's use. Thoroughly ventilate greenhouses for 24 hours after removing plastic.

#### RE-HANDLING PERIOD:

**Potting soil:** Treated soil is to remain covered by plastic sheeting or similar material impermeable to MITC, for 7 days after treatment. When prior handling is necessary, wear personal protective equipment specified for applicators. Clothing must be laundered after each day's use.

#### PROTECTION OF CROPS, NATIVE & OTHER NON-TARGET PLANTS:

DO NOT spray desirable plants and lawns and avoid spray drift. DO NOT apply within one metre of drip line of plants. DO NOT use in greenhouse where plants are present. DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands and pastures.

#### PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT:

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

#### STORAGE AND DISPOSAL:

Store in the closed, original container in a cool, well ventilated area. DO NOT stored for prolonged periods in direct sunlight. Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.

#### Refillable containers (1000L only):

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.