

# **POISON**

**KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING**

# **CHEMFARM**

# **Metham Sodium**

## **Soil Fumigant**

**ACTIVE CONSTITUENT:**

423g/L METHAM present as the sodium salt.  
*Pre-planting treatment for control of soil-borne pests  
in ornamentals, food and fibre crops, tobacco, and  
control of certain weeds, nematodes, symphylids  
and fungus diseases, onion weed (WA only)*

**CONTENTS 200 LITRES**

**APVMA APPROVAL NO : 40664/0898**

Intrade Commodities  
Prop. Becot Pty. Ltd.  
A.C.N. 009 093 681  
Suite 22, 11 Preston Street  
Como WA 6152  
Phone: (08) 9368 7444  
Fax: (08) 9368 7445

## DIRECTIONS FOR USE:

**RESTRAINTS:** DO NOT apply to a dry soil.  
 DO NOT exceed rates specified.  
 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
Sites for Seedbeds, Lawns & other limited areas	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	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, 10-15cm 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.
			1.1 L 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.

Situation	Pest Controlled	State	Rate	Critical Comments
Field: Application to Total Area	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	N.S.W., Qld., S.A., Vic., W.A. only	250- 500L per 400- 700L water per ha	SOIL INJECTION: Use the higher rate for heavier soils. Follow water method for injection described under seedbeds.
			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.

Situation	Pest Controlled	State	Rate	Critical Comments
Field: Application to Beds or Rows	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	All States	250- 500L per 400- 700L water per ha	SOIL INJECTION: Use the higher rate for heavier soils. Solution may be injected into preformed beds or as a band treatment. Follow the instructions for injection above. For a wider treated band space 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	<b>BEDS - SOIL COVERING</b> 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. Roll to compact immediately.
			250- 500L per 400- 700L water	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.
		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 Metham 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 Metham. Heavy nematode infestation may require further treatment prior to second crop. ENSURE INJECTION CAPACITY CAN HANDLE LARGE RATES OR USE SPLIT APPLICATIONS.

Situation	Pest Controlled	State	Rate	Critical Comments
Potting Soil	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	All States	600mL per m <sup>3</sup> soil mixture	CEMENT MIXER: Mix moist soil thoroughly, adding Metham 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 <sub>2</sub>	ROTARY TILLER METHOD: Spread soil smooth not more than water per 10m <sub>2</sub> depth of 20cm. Apply Metham over entire surface and till to maximum adjustable depth of tiller. Treat further layers as necessary and seal top layer with water.
Tobacco Plant Bed	Onion Weed	N.S.W., Qld. Only	9.75L per 700-900L water per 100m <sub>2</sub>	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.
		W.A. only	1.1L per 50L water per 5m <sub>2</sub>	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.**

**PROHIBITIONS:**

**DO NOT USE BY HAND DIRECTED SPRAYING INCLUDING SPRINKLER CAN  
DO NOT TREAT POTTING SOIL BY LOOSE MIXED METHOD OR VIA SHREDDER  
DO NOT USE BY FLOOD IRRIGATION OR OVERHEAD SPRINKLER SYSTEMS**

**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 given in tables. 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 crusted in the meantime re-cultivate lightly. DO NOT apply in low humidity or when temperature is above

32°C. Soil temperature should be in the range 10°C-32°C to depth of 8cm. Where fumes become unpleasant spray with water to seal fumes in.

**After Application:** Planting may take place 14-21 days after application if soil is light-medium texture, if not excessively wet or cold. A minimum interval of 30 days is necessary where soil texture is heavy or high in organic matter, or is wet or soil is less than 15°C. A 60 days 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 Metham Sodium 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

### **Precautions**

Workers previously experiencing skin or respiratory tract irritation from metham-sodium or dazomet exposure should not work with MITC 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 1 metre of drip line of plants. DO NOT use in greenhouses 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, Crustaceans & 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 well ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. Triple rinse containers before disposal and add rinsings to tank mix or dispose of rinsate in a disposal pit away from desirable plants and their roots and watercourses. On-site disposal of undiluted chemicals is unacceptable. Destroy empty containers by breaking, crushing or puncturing them. Dispose of the containers at a local authority landfill that does not burn its refuse. If there is no local authority landfill readily available in your area, bury the containers at a depth of 500mm or more at a licensed/approved disposal site. In some States wastes can only be buried at a licensed landfill. Do not burn empty containers or product.

**SAFETY DIRECTIONS:** Harmful if absorbed by skin contact or swallowed. Poisonous if inhaled. Will damage the eyes, nose and throat and skin. Repeated exposure may cause allergic disorders. Interacts with alcohol. 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. Use and store in well ventilated areas. When opening the container and preparing product for use, wear cotton overalls buttoned to the neck and wrist, a washable hat, apron (chemical resistant), elbow-length (nitrile, neoprene) gloves, chemical resistant footwear, a full facepiece respirator with organic vapour/gas cartridge or canister [or goggles and half facepiece respirator with organic vapour cartridge or canister].

When using the prepared (spray) (foam), wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length (nitrile, neoprene) gloves, chemical resistant footwear, a full facepiece respirator with organic vapour/gas cartridge or canister [or goggles and half facepiece respirator with organic vapour cartridge or canister].

If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product or vapour on skin, immediately wash area with soap and water. If product or vapour in 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 if rubber wash with detergent and warm water and contaminated clothing. Do not re-use footwear until thoroughly aired.

**FIRST AID:** If poisoning occurs, contact a doctor or Poisons Information Centre. If swallowed, and if more than 15 minutes from a hospital induce vomiting, preferably using Ipecac Syrup APF. 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.

### **Additional Information**

For additional information refer to the Material Safety Data Sheet and Fact Sheets available from the registrant and point of sale.