

**POISON****KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING****Nufarm
Metham
Soil Fumigant****ACTIVE CONSTITUENT: 423g/L METHAM present as the sodium salt**

Pre-planting treatment for control of soil-borne pests and for use in gravel to control Phytophthora species as per the Directions For Use Table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCTnufarm.com.au

Nufarm Australia Limited
ACN 004 377 780
103-105 Pipe Road
Laverton North Victoria 3026
Tel: (03) 9282 1000
Fax: (03) 9282 1001

Contents: 20 Litres
200 Litres
985 Litres
1000 Litres
1200 Litres

APVMA Approval No.: 34049/108668

GENERAL INSTRUCTIONS**STORAGE AND DISPOSAL**

Store in the closed, original container in a dry, cool, well ventilated area, out of direct sunlight. Store in a safe place away from foodstuffs, seeds or fertilisers. DO NOT repack or use container for other purposes. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site.

SAFETY DIRECTIONS

Harmful if inhaled or swallowed. Poisonous if inhaled. Will damage the eyes, nose and throat and skin. Repeated exposure may cause allergic disorders. Interacts with alcohol -avoid alcohol on day(s) 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. Use and store in well ventilated areas. When opening the container and preparing product for use, wear chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow-length chemical resistant gloves, chemical resistant footwear, a full face-piece respirator with organic vapour/gas cartridge or canister [or goggles and a half face-piece 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 chemical resistant gloves, chemical resistant footwear, a full face-piece respirator with organic vapour/gas cartridge or canister [or goggles and a half face-piece 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 (Phone 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.

ADDITIONAL STATEMENTS (WHS REGULATIONS 2011)

Causes severe skin burns and eye damage. Contact with acids liberates toxic gas. May be corrosive to metals. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

SAFETY DATA SHEET

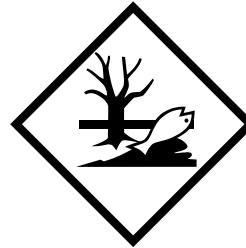
For further information refer to the Safety Data Sheet (SDS) and Fact Sheet available from the registrant Nufarm Australia Limited and point of sale.

In case of emergency: Phone 1800 033 498 Ask for shift supervisor. Toll free 24 hours

CONDITIONS OF SALE

"Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute."

CORROSIVE, LIQUID, BASIC, ORGANIC N.O.S. (CONTAINS METHAM AS SODIUM SALT)
UN No: 3267
PACKING GROUP: II
HAZCHEM: 2X
IN AN EMERGENCY DIAL: 000 POLICE OR FIRE BRIGADE
IN AN EMERGENCY, SPECIALIST ADVICE NUFARM AUSTRALIA LIMITED 1800 033 498



BN / DOM / Barcode / drumMUSTER logo /



POISON

KEEP OUT OF REACH OF CHILDREN
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Nufarm

Metham

Soil Fumigant

ACTIVE CONSTITUENT: 423g/L METHAM present as the sodium salt

Pre-planting treatment for control of soil-borne pests and for use in gravel to control Phytophthora species as per the Directions For Use Table.

READ COMPLETE DIRECTIONS FOR USE BEFORE USING THIS PRODUCT

nufarm.com.au

DIRECTIONS FOR USE

RESTRAINTS

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 for soil.

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/50L water per 1000 m ²	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.
			1.1L per /12L water 10m ²	ROTARY TILLER: Spray in front of tiller. Roll immediately to compact soil. Lightly water as above.
Field: Application to Total Area		NSW, Qld, SA, Vic, WA, only	250-500L/400-700L water per ha OR 250-500L/ ha (undiluted)	SOIL INJECTION: Use the higher rate for heavier soils. Follow method for injection described under seedbeds.
			250-500L /400-700L water per ha OR 250-500L/ ha (undiluted)	ROTARY TILLER: Spray 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.
Field: Application to Beds or Rows		All States	250-500L/400-700L water per ha OR 250-500L/ ha (undiluted)	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/700-1000L water per ha OR 400-800L/ ha (undiluted)	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 /400-700L water per ha OR 250-500L/ ha (undiluted)	ROTARY TILLER: Spray 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
Field: Application to Bed or Rows	Germinating Weed Seeds including Winter grass, Prince of Wales Feather, Fat Hen, Nematodes, Symphyliids (Not Tas.) (Garden Centipede),	Qld only	250-800L/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 SPILT APPLICATIONS.
Potting Soil	Fungus Diseases including Rhizoctonia, Pythium, Fusarium, Phytophthora, Verticillium, Sclerotinia and Club Root of Crucifers	All States	600mL/m ³ 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 /12L water per 10m ²	ROTARY TILLER METHOD: Spread soil smooth not more than 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	Sclerotinia and Club Root of Crucifers	NSW, Qld, only	9.75L/700-900L water per 100m ²	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.
	Onion Weed	WA only	1.1L/50L water per 5m ²	SPOT TREATMENT: Spray entire surface area using drenching nozzles.
Field: Application to gravel before stockpiling for road base material (only in Quarries situation)	<i>Phytophthora cinnamomi</i> , <i>Phytophthora multivora</i>	All States	80ml per m ³ of gravel	Apply metham sodium to gravel on a conveyer belt using calibrated spray equipment to ensure uniform coverage. Application should occur as close as possible to the gravel stockpile construction. Ensure treated stockpiles are clearly marked with a sign that includes the treatment date. Best results will be achieved when the gravel stockpile is moist. DO NOT locate treated gravel stockpiles in areas subject to storm water run-off. If unavoidable, a flow diversion bank should be constructed up-slope of the stockpile to direct run-off in a controlled manner around the stockpile.

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.

WITHHOLDING PERIOD: 28 DAYS FOR METHAM TREATED GRAVEL.

GENERAL INSTRUCTIONS

Mixing

If mixing with water apply immediately and do not allow mixture to stand overnight.

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°C-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 NUFARM METHAM 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.

Follow General fumigation procedures as per Australian standard AS2476-2008.

PRECAUTIONS

Workers previously experiencing skin or respiratory tract irritation from metham-sodium exposure 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.

PRECAUTIONS FOR GRAVEL TREATMENT

A buffer zone of 200 meters is required to protect bystanders from exposure to the fumigant. Treated gravel should NOT be transported from the quarry for two (2) days after treatment.

RE-ENTRY OR RE-HANDLING – FIELD USE INCLUDING GRAVEL TREATMENT

DO NOT allow manual handling of the fumigated gravel until two (2) days after fumigation or DO NOT allow entry into treated areas for 48 hours, unless wearing cotton overalls buttoned to neck and wrist, a washable hat, elbow-length chemical resistant gloves, chemical resistant footwear, a full face piece respirator with organic vapour/gas cartridge or canister [or goggles and half piece respirator with organic vapour cartridge or canister].

RE-ENTRY PERIOD- 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 greenhouse for 24 hours after removing plastic.

RE-ENTRY 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 green houses 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.

Do not locate treated gravel stockpiles in areas subject to storm water run-off. If unavoidable, a flow diversion bank should be constructed up-slope of the stockpile to direct run-off in a controlled manner around the stockpile.

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 dry, cool, well ventilated area, out of direct sunlight. Store in a safe place away from foodstuffs, seeds or fertilisers. DO NOT repack or use container for other purposes. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site.

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CORROSIVE, LIQUID, BASIC, ORGANIC N.O.S. (CONTAINS METHAM AS SODIUM SALT)
UN No: 3267
PACKING GROUP: II
HAZCHEM: 2X
IN AN EMERGENCY DIAL: 000 POLICE OR FIRE BRIGADE
IN AN EMERGENCY, SPECIALIST ADVICE NUFARM AUSTRALIA LIMITED 1800 033 498

