

## **METAM 510**

### **MAPP 16079**

**A soluble concentrate formulation (SL) containing 510 g/l (42 %w/w) metam sodium for application as a soil fumigant before planting top and soft fruit, vegetable brassicas, peas and beans, leafy vegetables, stem vegetables, bulb vegetables, fruiting vegetables, root and tuber crops, herbs, ornamentals, forestry and hops.**

Batch No.: See container

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

## **SAFETY PRECAUTIONS**

### **Operator Protection**

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS, FACE PROTECTION (FACESHIELD), and SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT\* when handling the concentrate and diluted product.

\*Powered hood or helmet respirator to at least

EN12941 with an organic vapour filter to at least TH3 A or equivalent, or power-assisted facemask respirator to at least EN 12942 with an organic vapour filter to at least TM3 ! or equivalent.

However, engineering controls may replace personal equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

TAKE OFF IMMEDIATELY any contaminated clothing.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE FUMES.

WASH HANDS AND EXPOSED SKIN before meals and after work.

IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

### **Consumer Protection**

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

### **Environmental Protection**

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads (SP1).

### **Storage and Disposal**

WASH OUT CONTAINER THOROUGHLY and dispose of safely. The empty container must be returned to the supplier.

KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place.

DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

**IMPORTANT INFORMATION**  
**FOR USE ONLY AS NEMATICIDE, FUNGICIDE, HERBICIDE AND INSECTICIDE**

For use only as soil fumigant prior to planting, limited to one application every third year on the same field.

**Crops/Situations:**

Top fruit, soft fruit, vegetable brassicas, peas and beans, leafy vegetables, stem vegetables, bulb vegetables, fruiting vegetables, root and tuber crops, herbs, ornamentals, forestry and hops

**Maximum individual dose:**

potting soils: 1.05 litres product/5 m<sup>3</sup> other soils  
other soils (indoor use): 1.8 L product/20 m<sup>2</sup>  
other soils (outdoor use): 0.6 L product/20m<sup>2</sup>  
equivalent to 300 L product/ha (i.e. 153 kg metam  
sodium/ha equivalent to 86.3 kg MITC/ha)

**Latest timing of application:**

pre-planting of crop (see 'Other specific restrictions' no. 1.)

**Other specific restrictions:**

1. Crops must not be planted until the safety test involving the use of cress has been carried out and germination found to be satisfactory.
2. Unprotected persons, livestock and pets must be kept out of treated areas for a least 24 hours following treatment.
3. The container must not be re-used for any purpose.
4. The empty container must be returned to the supplier.
5. A closed transfer system BS 6356 part 9 or equivalent must be used when transferring the pesticide from the product container.
6. Rates shall not exceed 153 kg/ha (corresponding to 86.3 kg/ha of MITC) in case of open field applications
7. Only use as nematicide, fungicide, herbicide and insecticide. May be authorized for application as soil fumigant prior to planting, limited to one application every third year on the same field.
8. Application in open field is only permitted by soil injection or drip irrigation and in greenhouse by drip irrigation only. The use of gas-tight plastic film for drip irrigation shall be prescribed.

**READ THE LABEL BEFORE USE. USING THE PRODUCT IN A MANNER WHICH IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE, FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

**METAM 510**

Contains g/l (42.0 % w/w) metam sodium

**DANGER****HARMFUL IF SWALLOWED.****MAY BE CORROSIVE TO METALS.****HARMFUL IF INHALED****CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.****MAY CAUSE AN ALLERGIC SKIN REACTION****SUSPECTED OF CAUSING CANCER****SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD****MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE****VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.**

Obtain special instruction before use.

Do not breathe fumes.

Wear suitable protective clothing (coveralls), suitable protective gloves, rubber boots, face protection (faceshield), and suitable respiratory protective equipment.

IF SWALLOWED: Rinse mouth. Do not induce vomiting

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

IF exposed or concerned: Get medical advice/attention. Absorb spillage to prevent material damage. Contact with acids liberates toxic gas.

**To avoid risks to human health and the environment, comply with the instructions for use.**

**MAPP 16079**

**This container must be handled by mechanical means only  
Protect from Frost**

This label is compliant with CPA voluntary initiative guidance



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CONDITIONS OF SUPPLY: The Seller warrants that the goods shall at the time of delivery to the Buyer conform to the Seller's standard specification but all other conditions and warranties, whether express or implied by statute or custom of the trade or otherwise and whether as to condition, quality, performance, merchantability, fitness for any purpose or otherwise, are expressly excluded and, subject as aforesaid, the Seller shall be under no liability whatsoever, in contract or in tort, for or in respect of any loss or damage whatsoever resulting from or arising out of the goods or supply or use thereof, whether caused by the negligence of the Seller or otherwise. The Seller shall be under no liability in respect of the warranty given above unless the Buyer allows the Seller reasonable opportunity of inspecting the goods where practicable. A consumers statutory rights are not affected.

## **DIRECTIONS FOR USE**

**This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.**

### **1. SPECTRUM OF ACTIVITY**

Metam 510 is intended for use only as a nematicide, fungicide, herbicide and insecticide which is active against:

- Nematodes: Potato cyst nematodes, root-knot nematodes
- Soil-borne diseases: Colletotrichum root rot, brown rot, corky disease of tomatoes
- Weed seeds and seedlings
- Soil pests: Millipedes, wireworms and symphilids

Under severe conditions of pest, disease or weed infestation however, a total sterilant such as steam, may be necessary.

Wherever intensive cropping is practiced, Metam 510 will help to alleviate 'soil exhaustion' caused by a build-up of these pathogens which can lead to serious reductions in crop vigour and yield.

Metam 510 is applied when the ground is idle - in between cropping and it is worth allowing as much time as possible for this exercise to achieve optimum results.

## **2. PRE-TREATMENT PREPARATION**

### **2.1 Soil Condition**

The preparation of the soil before treatment with Metam 510 is an extremely important prior consideration to obtaining good results.

First remove all remaining plant tissue and other debris from the previous crop and work the soil into a fine, open tilth, free from clods, adding lime if necessary.

Do not add organic matter until after treatment and if applied, use sterile compost to avoid new contamination. Soils with high clay or organic matter content will retain the sterilizing gas longer than lighter and more sandy soils.

### **2.2 Moisture**

The soil should be of 'potting moisture' content, suitable for use as a seed-bed to the depth of treatment.

If the soil is too dry, postpone treatment and water the soil sufficiently to achieve the correct consistency but do not saturate. An easy way to test for the correct content is to tightly squeeze a handful of soil. The resulting ball should remain intact in the open hand but shatter if dropped on to a hard surface.

### **2.3 Temperature**

Metam 510 is usually applied after cropping in the autumn because this has traditionally been the most practical time of the year for treatment. In certain circumstances, spring and summer application is favoured but in all cases, the soil temperature at 15 cm depth should not be below 10°C. A warmer soil will improve the dispersal of the fumes and provide a quicker turnaround time by hastening the breakdown period.

**OPTIMUM CONDITIONS FOR METAM 510 TREATMENT ARE USUALLY FOUND BETWEEN 1ST APRIL AND 31ST OCTOBER. OUTSIDE OF THIS PERIOD, SOIL TEMPERATURES MAY BE TOO LOW AND OUTDOOR SOILS TOO WET TO ENSURE EFFICIENT STERILIZATION AND THIS MAY PROLONG RESIDUES.**

### **3. TREATMENT OF GLASSHOUSE AND OUTDOOR SOILS**

#### 3.1 Methods of Application

##### 3.1.1 Soil injection

The principle is the deep application of the product by means of a special application machine that incorporates the disinfectant into the soil at the required depth.

##### 3.1.2 Drip irrigation + gas tight plastic film

Drip irrigation of Metam 510 is a convenient method for high-value crop greenhouses and fields. Drip irrigation tubes should be spaced 20 to 50 cm apart and perforated every 15 to 30 cm. They should be buried at 5 cm soil depth and covered by plastic film soil tarpaulin. Metam 510 is then applied as a water-diluted solution/mixture where the metam is supplied by an automatic dosage controller/dosing pump such as the Dosatron. A dilution of 0.1 to 2.0% should be achieved. The system must be fitted with an anti-return valve.

#### 3.2 Rate of Application

**FOR APPLICATION AS SOIL FUMIGANT PRIOR TO PLANTING, LIMITED TO ONE APPLICATION EVERY THIRD YEAR ON THE SAME FIELD**

##### 3.2.1 Soil injection (only allowed in open field conditions) Apply

300 litres Metam 510 per hectare. Rates should not exceed 153 kg/ha (corresponding to 86.3 kg/ha of MITC) in case of open field applications.

##### 3.2.2 Drip irrigation + gas tight plastic film

In open field conditions: apply maximum 300 litres Metam 510 per hectare. Rates should not exceed 153 kg/ha (corresponding to 86.3 kg/ha of MITC) in case of open field applications.

In glasshouse conditions Apply maximum 1.8 litres of Metam 510 per 20m<sup>2</sup> (equivalent to 900 litres of Metam 510 per hectare). Apply the dose rate indicated in a dilution of 0.1 to 2.0%.

**WHEN APPLIED THROUGH DRIP IRRIGATION: OBLIGATORY USE OF GAS TIGHT PLASTIC FILM**

#### 3.3 Mixing and Sealing the Soil

Best results can be expected from soil which has been thoroughly mixed after treatment with Metam 510, to ensure optimum dispersal of the product throughout the treated layer. This can be achieved by rotavation to the normal depth of cultivation using standard rotavation/spading equipment. Certain injection machines may already incorporate a rotavation facility.

Metam 510 begins to decompose into the active sterilizing gas (methyl isothiocyanate or 'MITC') on contact with soil and efficient sealing of the treated area should be carried out to keep the gas in the soil for as long as possible.

##### 3.3.1 Water Seal

In very dry conditions, further flooding may be necessary if cracks in the surface seal start to appear. A light water seal can be achieved by applying 20 litres of water per 10 square meters.

##### 3.3.2 Rolling

Under outdoor conditions, this method may provide a temporary seal but will only be effective on certain soil types. A 'smear' technique from a powered roller is preferred where the speed of the roller is slower than the forward speed of the tractor.

### 3.3.3 Polythene Sheeting

By far the most effective method of sealing the gas will be to cover the area with proprietary polythene film material, weighted down with soil at the edges or flooded with water to hold it close with the soil surface. This method is suggested especially in situations where weed control is the prime objective. The application of plastic film enables additional solarisation effects under appropriate climatic conditions.

## 3.4 After-Treatment Procedure

### 3.4.1 Glasshouse

One week after treatment: open glasshouse ventilators.

Two weeks after treatment: break seal and dig the soil to normal cultivation depth and leave rough (BE SURE NOT TO BRING UP UN-TREATED SOIL FROM UNDER THE STERILISED LAYER).

Three weeks after treatment: dig the soil again and leave rough.

Before planting: a further cultivation should be carried out.

NOTE: IF PLANTS ARE TO BE INTRODUCED INTO A HEATED HOUSE TREATED WITH METAM 510, THE HEAT MUST BE TURNED ON FOR AT LEAST TWO WEEKS BEFORE THEIR INTRODUCTION. ON SOILS WITH HIGH ORGANIC MATTER CONTENT, CULTIVATIONS SHOULD TAKE PLACE AT LEAST ONCE MORE AS THEY WILL RETAIN FUMES LONGER.

WINTER FLOODING SHOULD NOT BE UNDERTAKEN WITHIN 8 WEEKS OF TREATMENT. IN ALL CASES, A SEED GERMINATION TEST (SEE SECTION 5) SHOULD BE CARRIED OUT BEFORE PLANTING.

### 3.4.2 Outdoors

Rough dig or plough 14 days after treatment and leave in a rough state for at least a further 21 days. The soil can then be prepared for planting which should not take place within 8 weeks of treatment. ALWAYS CONDUCT A CRESS GERMINATION TEST BEFORE PLANTING (SEE SECTION 5).

## 4. TREATMENT OF POTTING SOILS

Use 1.05 litres Metam 510 in 170 litres water per 5 cubic meter of soil. Do not exceed the maximum indoor rate of 1.8 L/m<sup>2</sup> (i.e. equivalent to 900 L/ha). Comply with 'Other specific restrictions'.

Treat the shredded mixture of loam and manure, watering if necessary, to bring to 'potting moisture'. Leave in a heap not more than one meter high for at least two weeks and then aerate by turning. TEST FOR RESIDUES BEFORE MAKING UP THE COMPOST.

## 5. THE SEED GERMINATION TEST

Wherever treatment is made, planting of a following crop must not take place until the soil is free from the sterilising gas.

A safety test is therefore carried out using quick-germinating seeds such as cress, as follows:

5.1 Half-fill some jars with soil taken from the treated area. This should be representative of the whole area and to the depth of treatment. It is also advisable to set up additional jars from an adjacent untreated area for comparison.

5.2 If residues are suspected (more likely in wet or very heavy soils), it is advisable to sample from deeper soil to be absolutely safe.

5.3 Moisten the soil if necessary, sprinkle the seeds over the surface, seal tightly with lid or piece of polythene film and elastic band and keep in a warm place.

5.4 Planting is safe if the cress germinates normally.

5.5 If germination does not occur or if distorted plants are produced, it is unsafe to plant and the following procedure should be followed:

5.5.1 Raise the soil temperature.

5.5.2 Give a light watering if required.

5.5.3 Carry out further cultivations.

5.5.4 Repeat the test until a satisfactory result is achieved.

## **6. THIS PRODUCT CAN ONLY BE USED ON THE FOLLOWING CROPS:**

Top fruit (before planting), soft fruit (before planting), vegetable brassicas (before planting), peas and beans (before planting), leafy vegetables (before planting), stem vegetables (before planting), bulb vegetables (before planting), fruiting vegetables (before planting), root and tuber crops (before planting), herbs (before planting), ornamentals (before planting), forestry (before planting), hops (before planting).

## **7. SUPPLEMENTARY NOTES AND WARNINGS**

7.1 When diluted with water, Metam 510 commences to break down almost immediately and must therefore be used fresh. Only quantities for immediate use should be made up at one time.

7.2 Metam 510 produces fumes which are damaging to ALL plants. Plants must not be present in a glasshouse whilst treatment is taking place or while traces of fumes remain.

DO NOT treat houses within two meters of growing crops or allow any fumes to drift or leak from treated houses.

Glasshouse partitions may allow vapours to leak through.

7.3 Wear suitable respiratory protective equipment when handling the concentrate and diluted product. Wear a powered hood or helmet respirator to at least EN12941 with an organic vapour filter to at least TH3 A or equivalent, or power-assisted facemask respirator to at least EN 12942 with an organic vapour to at least TM3 A or equivalent.

7.4 When applying Metam 510 from a tank, mix small quantities at a time to avoid loss of fumes and apply without delay.

7.5 Divert or block drains which could carry solution under untreated glasshouses.

7.6 Metam 510 attacks rubber. Wash all equipment thoroughly with water and an authorised wetting agent immediately after use.

### **7.7 Weed Control**

Most effective weed control will be achieved from using the soil drip method which ensures maximum concentration of gas in the top layer of soil. Certain more resistant weed seeds with hard coats may not be controlled unless the soil is watered several days before treatment to encourage germination. Weeds which produce rhizomes are unlikely to be satisfactorily controlled e.g. common couch, creeping yellow-cress etc.

## **9. PRECAUTIONS**

IF YOU FEEL UNWELL, seek medical advice (show the label where possible)

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS AND FACE PROTECTION (FACESHIELD) and SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT\* when handling the concentrate and diluted product.

\*Powered hood or helmet respirator to at least EN 12941 with an organic vapour filter to at least TH3 A or equivalent, or power-assisted facemask respirator to at least EN 12942 with an organic vapour filter to at least TM3 A or equivalent.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

TAKE OFF IMMEDIATELY any contaminated clothing.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE FUMES.

WEAR A SUITABLE RESPIRATOR PROTECTIVE EQUIPMENT\*

WASH HANDS AND EXPOSED SKIN before meals and after work.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

DO NOT contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads (SP1).

WASH OUT CONTAINER THOROUGHLY and dispose of safely.

KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place. The empty container must be returned to the supplier

DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

**SECTION 6 OF THE HEALTH AND SAFETY AT WORK ACT ADDITIONAL PRODUCT SAFETY INFORMATION (This section does not form part of the product label under the Control of Pesticides Regulations 1986.)**

**METAM 510**

The product label provides information on a specific pesticidal use of the product; do not use otherwise

**Occupational Exposure Standard** There is no OES for this product.

**Medical Information**

Accidental over-exposure may result in the following symptoms:

- Eyes: Lacrimation, blepharospasm, conjunctivitis, chemical burns.
- Skin: Primary irritation, dermatitis, eczema, chemical burns.
- Ingestion: Nausea, vomiting, burns, gastroenteritis, sleepiness, cardiac and respiratory disorders, shock, renal lesions.

Symptoms aggravated by alcohol.

- Inhalation: Primary mucosal and upper respiratory tract irritation, throat pain, cough, hoarseness.

**First Aid**

IF exposed or concerned: Call a POISON CENTER or doctor/physician.

When seeking medical advice, show the packaging or label and the safety data sheet to the doctor in attendance

IF SWALLOWED: Rinse mouth. Give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Wear protective gloves when administering first care if possible. Avoid direct contact with contaminated clothing, shoes and vomit. Seek medical advice immediately and show this container or label.

IF INHALED: Remove person from exposure to fresh air and keep at rest and comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical advice immediately and show this container or label.

IN ON SKIN: Take off immediately all contaminated clothing. In case the clothes stick to the skin: first rinse the clothes and skin with plenty of water/shower. Wash for at least 15 minutes. If possible, wear protective gloves when administering first aid. Avoid contact with contaminated clothing and shoes. Immediately call a Poison Center or doctor/physician. Wash contaminated clothing before reuse. Contaminated work clothing should not leave the work area.

IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Rinse away the non-affected eye. Immediately consult a Poison Centre or doctor/physician.

**Guide to Medical Practitioner**

Metam-sodium is a methyl dithiocarbamate compound. There is no antidote. Treatment should be supportive and symptomatic.

**Personal Protective Equipment (PPE) REFER TO PRECAUTIONS SECTION.**

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS, FACE PROTECTION (FACESHIELD), AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT\* when handling the concentrate and diluted product.

Gloves made of pvc or butyl rubber, faceshield (BS 2092) and coveralls.

\*Powered hood or helmet respirator to at least EN 12941 with an organic vapour filter to at least TH3 A or equivalent, or power-assisted facemask respirator to at least EN 12942 with an organic vapour filter to at least TM3 A or equivalent

**Spillage**

- Keep people and animals away from spillage area. Do not eat, drink or smoke.
- Avoid contact with eyes, skin and clothing. Wear PPE as above.
- If possible, decontaminate PPE before its removal (if after - wash separately).

Where PPE cannot be cleaned, dispose of as contaminated waste.

- Contain or absorb spillage with sand or earth - do not allow contamination of public drains or surface or ground waters. Sweep up carefully and shovel sweepings into marked bags or drums. Dispose of through a reputable local waste disposal contractor.
- Inform local water plc immediately if spillage enters drains and the National



Rivers Authority (England and Wales) or River Purification Boards (Scotland), if it enters surface or ground waters.

### **Storage**

- WASH OUT CONTAINER THOROUGHLY and dispose of safely. KEEP IN ORIGINAL CONTAINER tightly closed in a secure, well-ventilated pesticide store. DO NOT REUSE CONTAINER FOR ANY PURPOSE. The empty container must be returned to the supplier.
- PROTECT FROM FROST.

### **Fire Fighting**

- Call the Fire Brigade at once to deal with all fires involving pesticides unless the fire is very small and immediately controllable. Avoid breathing smoke or fumes.
- This product is water-based and non-flammable but may give rise to dangerous fumes\* if strongly heated. It is combustible only after evaporation of water. The container is combustible. (\*Such as methyl isothiocyanate and hydrogen sulphide).
- Contamination with acid introduces risk of fire from carbon disulphide.
- Wear self-contained breathing apparatus (SCBA).
- Fight fire with foam, alcohol-resistant foam, dry powder, CO<sub>2</sub> or water spray (in preference to water jets). Contain fire-fighting water, bunding if necessary with sand or earth.
- If without risk, remove intact containers from exposure to fire. Spray unopened containers with mist spray to keep cool.
- If contamination of drains, sewers, surface or ground water is unavoidable, inform the local water plc and the National Rivers Authority (England and Wales) or River Purification Boards (Scotland).

### **Disposal**

- Contact Local Authority (Environmental Health Department) or a reputable waste disposal company for collection and disposal of unwanted product or containers.
- For further guidance on the disposal of containers, surplus spray solution, tank washings and concentrate, refer to Part 5 (Disposal of Pesticide Waste) of the MAFF/HSE booklet 'Pesticides: Code of Practice for the Safe Use of Pesticides on Farms on Holdings'.

**The attached Safety Data Sheet does not form part of the product labels approved under the Plant protection products regulation (EC) No 1107/2009. Following the instructions on the product label for the specified uses should ensure that the product is used safely and efficaciously for those uses.**