



Tsama Agricultural Agencies cc

Crop Nutrition Specialists

# Product Label FileNovember



For further information contact  
044 533 1645 or  
[Info@tsama-agric.com](mailto:Info@tsama-agric.com)



PRODUCT	CONCENTRATION	PACK	REGISTRATION NUMBERS
TSAMA BOR	130g/l B	5	B3606
TSAMA CALCIUM	400g/l Ca,3g B,30g Zn	5	B3614
TSAMA CALIPHOS	132g/l P, 42g Ca, 41g N	5	K7643
TSAMA COPPER	500g/l Cu	5	B3604
TSAMA COPPER START	500g/l Cu, 60g <i>E.maxima</i>	5	B3582
TSAMA COPPER TRIPLE	330g/l Zn, 280g/l Mn, 55g/l Cu	5	B3652
TSAMA IRON 60	60 g/kg iron EDDHA chelate	5	B3607
TSAMA MG	300g/l Mg	5	B3623
TSAMA MIX	70g Mn,50g Zn, 25g Fe, 20g Cu, 20g B, 1g Mo per kg	25	B3696
TSAMA MN	400g/l Mn	5	B3605
TSAMA MN START	400g/l Mn 60g <i>E.maxima</i>	5	B3583
TSAMA MOLY-P START	109g/l P, 250g/l Mo	1	B3668
TSAMA PENTA S	145g/kg S, 87gMg, 70gMn, 51g B, 2g Mo	5	B3631
TSAMA PIT STOP	160g/l Ca	5	B3581
TSAMA PLENTY K	276g/l K	5	K7761
TSAMA ZINC	700g/l Zn	5	B3584
TSAMA ZINC START	84g/l P, 263g/l Zn, 5.5g/l Mo, 60g/l <i>E maxima</i>	5	B3585
TSAMA ZINC TRIPLE	340g/l Mn, 175g/l Cu, 155g/l Zn	5	B3651
ZINC TSAMATE	150g/kg Zn in a "tsamate " formulation	5	B3994

The labels are colour coded for easy recognition.

There are 4 by 5 l packed into a box.

E maxima= *Ecklonia maxima*, a sea weed extract

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# TSAMA

## Tsama Bor

Reg. No. B3606 • Act No. 36 of 1947

A boron solution for foliar application or fertigation to maintain or correct boron deficiencies in crops

### FERTILIZER GROUP 2

#### ACTIVE INGREDIENT

Boron (B) 100 g/kg (130 g/t)

**SG = 1.30 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

PO Box 1372 Plettenberg Bay 6600

Tel: 044 533 1645

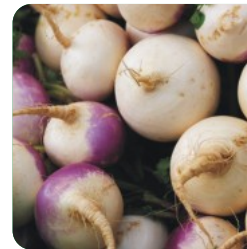
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[www.tsama-agric.com](http://www.tsama-agric.com)

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Batch number

Manufacture date



# B

**DIRECTIONS FOR USE:** USE ONLY AS DIRECTED

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- To be used only when recommended by a suitably qualified person.

**Mixing instructions:**

Always follow the label recommendations. Where water volume differ from typical rates as specified on the label, adjust application rates accordingly.

Shake container thoroughly before use. Pour through the top filter into ¾ filled tank. Keep agitation going. Top up with water and continue agitating whilst spraying.

**Compatibility:**

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

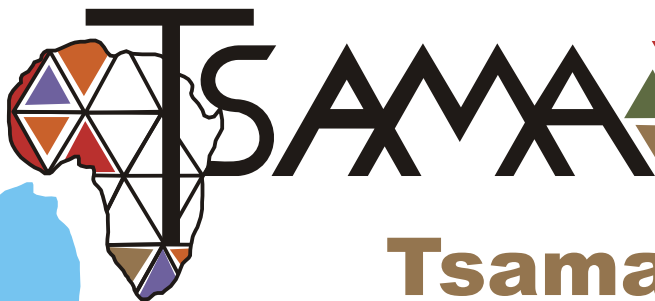
**Storage:**

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

**Conditions of Sale:**

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

CROP	DOSAGE RATE	REMARKS
Apples, Pears	50 - 100 mL/100 £ water Up to 80 mL/100 £ water	Apply at pink (white) bud, and repeat again at petal fall if necessary. Where necessary, apply after harvest but before leaf senescence. Based on a typical TRV of 2 500 £/ha.
Avocado	Up to 50 mL/100 £ water	Apply at white balloon stage and if necessary again at spring flush. Based on a typical water rate of 2 000 £/ha.
Bananas	0.25 - 1 £/ha	Repeat application at 10 - 14 day intervals up to flowering may be necessary. Water rate: 30 - 300 £/ha.
Brassicac (Cabbages, etc.)	Up to 3 £/ha	Apply at 4 - 6 leaf stage. Repeat applications at 10 - 14 day intervals where necessary. Water rate: 200 £/ha.
Canola	1 - 3 £/ha	Apply from at beginning of stem extension. For moderate to severe deficiency also apply 1 - 3 £/ha at 4 to 6 leaf stage and further application 10 to 14 days after beginning of stem extension. Avoid flowering. Water rate: 50 to 200 £ per ha.
Carrots	Up to 3 £/ha	Apply at 10 - 15 cm stage or when there is enough leaf area to intercept spray. Water rate: 200 £/ha.
Cereals	1 £/ha	Apply at 4 - 6 leaf stage and repeat if necessary at 7 - 8 leaf stage. Avoid flag leaf applications. Water rate: 200 £/ha.
Citrus	Up to 50 mL/100 £ water	Apply just before or at white bud. If necessary repeat application after petal fall. Based on a water rate of 4 000 £/ha.
Dry Beans, Peas	Up to 2 £/ha	Apply when plants are 10 - 15cm high. For moderate to severe deficiencies, repeat application if necessary, 10 - 14 days later. Water rate: 200 £/ha.
Grapevines	1 - 1.5 £/ha	Apply at flower truss visible, at flower buds separated and/or at fruit set. Water rate: 200 - 1 000 £/ha.
Groundnuts, Peanuts	1 - 2 £/ha	Apply at the 4 to 6 leaf stage. Water rate: 50 - 300 £/ha.
Litchi	Up to 100 mL/100 £ water	Apply from bud to early flush repeated in 1-2 sprays, 10 - 14 days apart. Also apply post-harvest at up to 125 mL/100 £ water. Based on typical water rate of 1 500 £/ha.
Macadamia	60 - 80 mL/100 £ water	Apply a maximum of 1 £/ha per application. Apply at 10 - 14 day intervals from early budding to nut development. Based on typical water rate of 1 500 £/ha.
Maize	Up to 3 £/ha	Apply at 6 to 8 leaf stage. For moderate to severe deficiency, repeat application 10 to 14 days later. Water rate: 200 £/ha.
Mango	Up to 50 mL/100 £ water	Apply at bud development to early flush. Repeat applications 10 - 14 days later if necessary. Also apply up to 50 mL/100 litres post-harvest. Based on a typical water rate of 2 500 £/ha and a maximum of 4 000 £/ha.
Olive	Up to 80 mL/100 £ water	Apply at bud break and repeat if necessary at calyx opening and again post-flowering if necessary. Apply post-harvest application of up to 120 mL/100 £ water only where necessary. Based on a typical water rate of 1 500 £/ha.
Onion	Up to 1 £/ha	Apply as soon as there is enough leaf area to intercept spray. Water rate: 200 £ per ha.
Persimmons	Up to 50 mL/100 £ water	Start application 7 - 10 days before flowering. Repeat after flowering if necessary. Based on typical water rate of 1 500 £/ha.
Potatoes	Up to 1 £/ha	Apply 7 - 14 days after 100 % emergence. Water rate: 200 £/ha.
Soybean	Up to 2 £/ha	Apply when the crop is 5 to 15 cm tall, repeated at 10 - 14 day intervals if necessary. Water rate: 200 £/ha.
Stone Fruit (Apricots, Cherries, Nectarines, Peaches, Plums)	Up to 70 mL/100 £ water	Apply at bud burst and again at pink (white) bud. Where necessary, apply up to 100 mL/100 litres water post-harvest but before leaf senescence. Based on a typical TRV of 1 500 £/ha and a maximum TRV of 2 500 £/ha. Apply sufficient water to provide good cover but avoiding run-off.
Strawberries (field grown)	1 £/ha	Apply max of 2 applications from white bud and repeat 10 to 14 days later if necessary. Water rate: 200 to 500 £/ha.
Sugar Cane	Up to 2 £/ha	Apply when the crop is 30 - 90 cm tall. Water rate: 200 - 500 £ per ha.
Sunflower	1 - 3 £/ha	Apply from 2 pairs of leaves up to flower bud stage. Repeat at 10 - 14 day intervals if necessary. Do not apply during flowering. Water rate: 50 to 200 £ per ha.
Tomato (field grown)	1 - 2 £/ha	Apply when plants are at 4 to 6 leaf stage. Repeat at 10 - 14 day intervals if necessary. Water rate: 50 to 500 £/ha.
Vegetables	Up to 2 £/ha	Apply as soon as there is enough leaf area to intercept spray. Where necessary, repeat applications 10 - 14 days apart up to flowering.



# Tsama Calcium

Reg. No. B3614 • Act No. 36 of 1947

A calcium suspension concentrate with added zinc and boron for foliar application

## FERTILIZER GROUP 2

### ACTIVE INGREDIENTS

Calcium	(Ca)	242 g/kg	( 400 g/l)
Zinc	(Zn)	18 g/kg	( 30 g/l)
Boron	(B)	2 g/kg	( 3 g/l)

**SG = 1.65 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

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Ca, Zn, B

**DIRECTIONS FOR USE:** USE ONLY AS DIRECTED

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid application under climate extremes. Wear suitable protective clothing. Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.

**Mixing instructions:**

Always follow the label recommendations. Where water volume differ from typical rates as specified on the label, adjust application rates accordingly.

Shake container thoroughly before use. Pour through the top filter into  $\frac{3}{4}$  filled tank. Keep agitation going. Top up with water and continue agitating whilst spraying.

**Compatibility:**

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

**Storage:**

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

**Conditions of Sale:**

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

CROP	DOSAGE RATE	REMARKS
Apples	Up to 200 mL/100 L water	Repeat applications at 10 - 14 day intervals from petal fall to one month before harvest. Based on a typical TRV of 2 500 L/ha. <b>Note:</b> Final application to be made at least one month before harvest.
Avocado	Up to 250 mL/100 L water	Apply from fruit set until one month before harvest. Based on a typical TRV of 2 000 L/ha.
Bananas	2 L/ha	Repeat applications at 10 to 14 day intervals where necessary until one month before harvest. Water rate: 30 L/ha.
Citrus	Up to 125 mL/100 L water	Apply from fruit set until one month before harvest. Based on a typical TRV of 4 000 L/ha.
Grapevines	5 L/ha	Apply at 10 to 14 day intervals starting from fruit set or apply at key application timings e.g. fruit set, 4mm diameter, start of ripening and two weeks later. Water rate: 1 000 L/ha. <b>Important:</b> Late applications may leave a deposit on berries which may be of significance for table grapes.
Groundnuts	3 - 5 L/ha	Apply at 4 - 6 leaf stage. Repeat at 10 - 14 day intervals if necessary. Water rate: 30 - 200 L/ha.
Mango	Up to 250 mL/100 L water	Apply from fruit set at 10 to 14 day intervals until 1 month before harvest. <b>Important:</b> Late applications may leave a deposit on the fruit. Based on a typical TRV of 2 000 L/ha.
Melon (and Cucumber, Squash, Pumpkin)	2 - 4 L/ha	Apply at 7-10 day intervals from the first fruit set up to one month before harvest. Repeat as necessary. Water rate: 200 - 400 L/ha.
Nuts (deciduous)	5 L/ha	Start application one week after petal fall and repeat as necessary at 10 - 14 day intervals. <b>Note:</b> Final application must be made one month before harvest. Water rate: 500 - 1 000 L/ha.
Pears	Up to 200 mL/100 L water	Apply from petal fall until one month before harvest and repeat applications at 10 - 14 day intervals where necessary. Based on a typical TRV of 2 500 L/ha.
Pepper (field grown)	5 L/ha	Apply from 4 to 6 leaf stage. Repeat applications at 7 - 10 day intervals up to one month before harvest. Water rate: 50 - 500 L/ha.
Stone Fruit (Apricots, Plums, Cherries, Nectarines, Peaches)	Up to 350 mL/100 L water	Apply at 7 to 14 day intervals from petal fall to one month before harvest. <b>Note:</b> Final application to be made at least one month before harvest. Under conditions conducive to fruit russet (variety, weather conditions, etc) delay applications until 6 weeks after petal fall. Based on a typical TRV of 1 500 L/ha.
Strawberry (field grown)	3 - 5 L/ha	Apply 3 applications at 10 - 14 day intervals, from beginning of new season growth. <b>Note:</b> Last application to be made one month before harvest. Water rate: 300 - 500 L/ha.
Tomato (field grown)	5 L/ha	Apply from end of flowering on second truss. Where necessary, repeat at 7 - 10 days intervals until one month before harvest. Do not exceed 5 applications per season. Water rate: 50 - 500 L per ha.
Vegetables (field grown) (Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Carrots, Lettuce)	3 - 5 L/ha	Apply from 4 to 9 leaf stage. Repeat at 10 to 14 day intervals at until one month before harvest. Water rate: 50 - 500 L/ha.



# TSAMA

## Tsama Caliphos

Reg. No. K7643 • Act No. 36 of 1947

A nitrogen, phosphorus and calcium containing fertilizer  
for foliar application

### FERTILIZER GROUP 1

#### ACTIVE INGREDIENTS

Nitrogen (N)	30 g/kg	( 41 g/l)
Phosphorus (P)	98 g/kg	( 132 g/l)
Calcium (Ca)	31 g/kg	( 42 g/l)

**SG = 1.35 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

PO Box 1372 Plettenberg Bay 6600

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**P, Ca, N**

**Warnings:**

**Contains phosphoric acid.** Irritating to eyes and skin. In case of contact with eye, rinse immediately with water and seek medical advice.

**DIRECTIONS FOR USE: USE ONLY AS DIRECTED**

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid application under climate extremes. Wear suitable protective clothing. Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.

**Mixing instructions:**

Always follow the label recommendations.

Shake container thoroughly before use. Pour through the top filter into ¾ filled tank. Keep agitation going. Top up with water and continue agitating whilst spraying.

**Compatibility:**

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural agencies.

**Storage:**

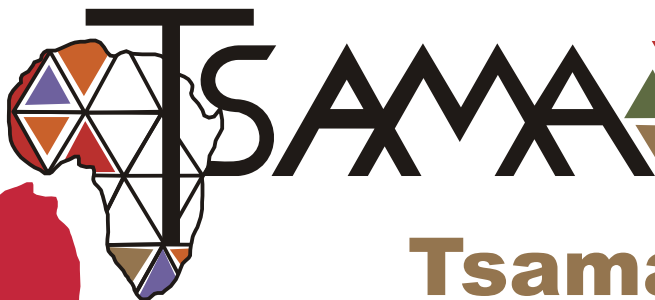
Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

**Conditions of Sale:**

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

CROP	DOSAGE RATE	REMARKS
<b>Apples, Pears</b>	Up to 400 mL/100 £ 10 £/ha in 1 000 £ water	Apply 3-5 applications at 10-14 day intervals, starting from petal fall. Based on a typical TRV of 2 500 £/ha. <b>For red coloration in apples:</b> Apply 1 or 2 applications, 7 days apart. Starting from color break (2-3 weeks before harvest). <b>Note:</b> The recommended water volume is important.
<b>Bananas</b>	10 £/ha	Apply at 10-14 day intervals from fruit set. Water rate: 30 £/ha.
<b>Brassicas</b> (Brussels Sprouts, Cauliflower, Cabbages, Broccoli, Turnips and Turnip tops)	5-10 £/ha	Apply from stem extension. Where necessary, repeat in 2-3 applications 7-10 days apart. Water rate: 75-200 £/ha.
<b>Carrot</b>	5 £/ha	Apply from when plants are 15 cm tall. If necessary, repeat in 2-3 applications, 7-10 days apart. Water rate: 200 £/ha.
<b>Citrus</b>	Up to 250 mL/100 £ water	Start application from fruit set. Repeat 2-3 times at 10-14 day intervals. Based on a typical TRV of 4 000 £/ha.
<b>Grapevines</b>	Up to 10 £/ha	Apply at fruit set, repeated 2-3 times, 10-14 days apart. Water rate: 500 £/ha.
<b>Groundnuts, Peanuts</b>	5 £/ha	Apply at 4 to 6 leaf stage. Repeat where necessary at 10 to 14 day intervals. Water rate: 200 £/ha.
<b>Lettuce</b> (field grown)	5 £/ha	Apply 2-3 applications from 10-14 days after transplanting or emergence. Allow 7-10 day intervals between applications. Water rate: 200-500 £/ha.
<b>Maize</b>	5 £/ha	Apply at 4 to 8 leaf stage. Repeat at 10-14 day intervals if necessary. Water rate: 200 £/ha.
<b>Nursery plants</b>	Up to 600 mL/100 £ water	Apply as soon as there is sufficient leaf area to intercept a spray. Repeat at 10 to 14 day intervals as necessary. Avoid applications during flowering. Do not exceed application of more than 15 £ per ha/season. Based on a maximum water rate of 500 £/ha.
<b>Oilseed Rape</b>	Up to 10 £/ha	Apply at beginning of stem extension. Repeat application 10-14 days later if necessary. Water rate: 30-200 £/ha.
<b>Olive</b>	Up to 10 £/ha	Apply before flowering. Repeat if necessary, 10-14 days after flowering. Water rate: 200-1 000 £/ha.
<b>Onions</b>	5 £/ha	Apply during bulb filling, repeated 1-2 times if necessary at 10-14 day intervals. Water rate: 75-200 £/ha.
<b>Peas</b>	5 £/ha	Apply before flowering. Water rate: 200 £ per ha.
<b>Persimmons</b>	Up to 700 mL/100 £ water	Apply at the beginning of petal fall and repeat 10-14 days later. Based on typical water rate of 1 500 £/ha.
<b>Pineapple</b>	Up to 10 £/ha	Start application from early fruit development. Repeat applications if necessary at 10-14 day intervals. Water rate: 200-300 £/ha.
<b>Potatoes</b>	15 £/ha 5-10 £/ha 3 to 5 £/ha	<b>To increase tuber number:</b> Apply at tuber initiation (when 50% of the tip swelling is twice the diameter of the rest of the stolon). <b>To increase the tuber size:</b> A minimum of 2 applications during tuber bulking (as soon as first formed tubers are 10 mm in diameter). Allow 10-14 days between applications. Water rate: 75-200 £/ha. <b>Pivot Application:</b> Apply at tuber initiation and at 10 day intervals thereafter in 3-4 applications. Water rate: 100 000 £/ha.
<b>Stone Fruit</b> (Apricots, Cherries, Nectarines, Peaches, Plums)	Up to 700 mL/100 £ water	Apply 3-5 times at 10-14 day intervals, starting at petal fall. Based on a typical TRV of 1 500 £/ha.
<b>Strawberry</b> (field grown)	10 £/ha 5 £/ha	<b>Non-ever bearing varieties:</b> Apply 3 applications from start of flowering. Repeat applications at 7-10 day intervals. <b>Ever bearing varieties:</b> Apply 6 applications at 10-14 day intervals during the growing season. Water rate: 500 £/ha.
<b>Tobacco</b>	5 £/ha	Apply two applications starting from two weeks after transplanting (3-4 leaf stage) at 10-14 day intervals. Water rate: 30-500 £/ha.
<b>Tomato</b> (field grown)	5 £/ha	Apply 2-4 applications of from 4-6 stage or from flowering on second truss. Repeat at 10-14 day intervals. Water rate: 30-500 £/ha.





# Tsama Copper

Reg. No. B3604 • Act No. 36 of 1947

A copper suspension concentrate for foliar application to maintain or correct copper deficiencies in crops

## FERTILIZER GROUP 2

### ACTIVE INGREDIENT

Copper (Cu) 312 g/kg (500 g/t)

**SG = 1.60 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

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# Cu

**DIRECTIONS FOR USE: USE ONLY AS DIRECTED**

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid application under climate extremes. Wear suitable protective clothing. Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.

**Mixing instructions:**

Always follow the label recommendations. Where water volume differ from typical rates as specified on the label, adjust application rates accordingly.

Shake container thoroughly before use. Pour through the top filter into ¾ filled tank. Keep agitation going. Top up with water and continue agitating whilst spraying.

**Compatibility:**

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

**Storage:**

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

**Conditions of Sale:**

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

CROP	DOSAGE RATE	REMARKS
Cereals	0,175 to 0,5 ℓ/ha	Apply at 4 - 6 leaf stage and repeat if necessary at 6 - 8 leaf stage. Avoid application onto flag leaf. Water rate: 200 ℓ/ha.
Citrus	Up to a maximum of 50 mℓ/100 ℓ water	Apply after harvest and before flowering. Not to be used during flowering or fruit development. Based on typical water rate of 4 000 ℓ per ha.
Grapes	0.5 ℓ/ha	Apply before flowering. Water rate: 500 – 1 000 ℓ/ha.
Grass	0,25 to 0,5 ℓ/ha	Apply 10 - 14 days before grazing, avoiding application onto pastures being grazed by sheep. Water rate 75 – 300 ℓ/ha.
Macadamias	Up to a maximum of 100 mℓ/100 ℓ water	Do not apply during flowering or when there is fruit on the tree. Based on a typical water rate of 1 000 ℓ/ha.
Maize	0,25 to 0,5 ℓ/ha	Apply at the 4 to 8 leaf stage. Water rate: 75 to 200 ℓ/ha.
Olives	Up to 100 mℓ/100 ℓ water	Typically apply 1ℓ/ha and max 1,5 ℓ ha before flowering. Based on water rate: 1 000 ℓ/ha.
Onions	0,25 to 0,5 ℓ/ha	Apply two weeks after transplanting or when crop is 15cm high. Repeat applications at 10 - 14 day intervals if necessary.
Potatoes	0,5 ℓ/ha	Apply 1 week after 100 % emergence and repeat if necessary at 10 - 14 day intervals. Water rate: 200 ℓ/ha (30 ℓ/ha for aerial application).
Tea	0,25 to 0,5 ℓ/ha	Apply during plucking season, repeated at 4 week intervals where necessary. Water rate 30 - 500 ℓ/ha. For aerial application apply at same rates and timings. Water rate: 30 ℓ water/ha.
Sugar Cane	0,25 to 1 ℓ/ha	Apply when crop at 4 - 8 leaf stage. Water rate: 200 ℓ/ha.



# Tsama Copper Start

Reg. No. B3582 • Act No. 36 of 1947

A copper seed dressing containing seaweed extract

## FERTILIZER GROUP 2

### ACTIVE INGREDIENTS

Copper (Cu)	312 g/kg	( 500 g/l)
<i>Ecklonia maxima</i>	37 g/kg	( 60 g/l)

**SG = 1.60 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

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Contents

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Manufacture date



# Cu

**DIRECTIONS FOR USE: USE ONLY AS DIRECTED**

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid application under climate extremes. Wear suitable protective clothing. Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.

**Mixing instructions:**

Always follow the label recommendations. Shake container thoroughly before use. Any dosing equipment must be carefully calibrated to ensure correct and even application.

Product may be diluted with water by adding one part water to four parts product. Mix thoroughly before use.

**Compatibility:**

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

**Storage:**

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

**Conditions of Sale:**

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# RECOMMENDATIONS

CROP	DOSAGE RATE (ℓ/TON SEED)
Alfalfa	3 ℓ
Beans	3 ℓ
Canola	4 ℓ
Chick Peas	3 ℓ
Cereals	2 - 5 ℓ
Legumes	1 - 2 ℓ
Maize	2 - 4 ℓ
Peas	1 - 2 ℓ
Soya Bean	1 - 2 ℓ
Sunflower	2 - 4 ℓ



# Tsama Copper Triple

Zn + Mn + Cu

Reg. No. B3652 • Act No. 36 of 1947

A zinc, manganese and copper suspension concentrate mix

## FERTILIZER GROUP 2

### ACTIVE INGREDIENT

Zinc (Zn)	178 g/kg	(330 g/l)
Manganese (Mn)	151 g/kg	(280 g/l)
Copper (Cu)	30 g/kg	( 55 g/l)

**SG = 1.85 @ 20°C**

Manufactured for and distributed by:

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# Tsama Copper Triple

## DIRECTIONS FOR USE: USE ONLY AS DIRECTED

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- Do not exceed the appropriate application rates.
- Avoid application under climate extremes.
- Wear suitable protective clothing.
- Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.

### Mixing instructions:

Always follow the label recommendations. Where water volume differ from typical rates as specified on the label, adjust application rates accordingly.

Shake container thoroughly before use. Pour through the top filter into ¾ filled tank. Keep agitation going. Top up with water and continue agitating whilst spraying.

### Compatibility:

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

### Storage:

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

### Conditions of Sale:

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

CROP	DOSAGE RATE	REMARKS
Beans & Peas	0.5 - 2.0 ℓ/ha	Apply when crop is 10 - 15cm high. Repeat at 10 - 14 day intervals if necessary.
Carrots	0.5 - 2.0 ℓ/ha	Apply when there is enough leaf material to intercept spray. Repeat at 10 - 14 day intervals if necessary.
Cereals	0.5 - 2.0 ℓ/ha	Apply at 4 - 6 leaf stage and repeat if necessary at 6 - 8 leaf stage. Avoid application onto flag leaf. Water rate: 200 ℓ/ha.
Citrus	Up to max of 50 mℓ/100 ℓ water	Apply after harvest and before flowering. Not to be used during flowering or fruit development. Based on typical water rate of 4 000 ℓ/ha.
Grapes	0.5 - 1.0 ℓ/ha	Apply before flowering. Water rate: 500 - 1 000 ℓ/ha.
Grass	0.5 - 2.0 ℓ/ha	Apply 10 - 14 days before grazing, avoiding application onto pastures being grazed by sheep. Water rate: 75 - 300 ℓ/ha.
Macadamias	Up to max of 75 mℓ/100 ℓ water	Do not apply during flowering or when there is fruit on the tree. Based on a typical water rate of 1 500 ℓ/ha.
Maize	1.0 - 2.0 ℓ/ha	Apply at the 4 to 8 leaf stage. Water rate: 75 - 200 ℓ/ha.
Olives	Up to 80 mℓ/100 ℓ water	Typically apply 1 ℓ/ha and max 1.5 ℓ/ha, before flowering. Based on water rate of 1 500 ℓ/ha.
Onions	1.0 - 2.0 ℓ/ha	Apply two weeks after transplanting or when crop is 15 cm high. Repeat applications at 10 - 14 day intervals if necessary.
Potatoes	0.5 - 2.0 ℓ/ha	Apply one week after 100 % emergence and repeat if necessary at 10 - 14 day intervals. Water rate: 200 ℓ/ha (30 ℓ/ha for aerial application).
Soyas	Up to 1.0 ℓ/ha	Apply when crop is 10 - 15 cm high and repeat 10 - 14 days later if required. Avoid application after beginning of flowering.
Tomatoes	Up to 2.0 ℓ/ha	Apply one week after transplant or from 3 - 8 leaf stage. Repeat at 10 - 14 day intervals if necessary until beginning of flowering.



# Tsama Iron 60

Reg. No. B3607 • Act No. 36 of 1947

A high purity, water soluble 6 % Fe EDDHA chelate  
granulated powder

## FERTILIZER GROUP 2

### GUARANTEED ANALYSIS

Iron (Fe) 60 g/kg as EDDHA

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

PO Box 1372 Plettenberg Bay 6600

Tel: 044 533 1645

e-mail: [info@tsama-agric.com](mailto:info@tsama-agric.com)

[www.tsama-agric.com](http://www.tsama-agric.com)

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# Fe

**DIRECTIONS FOR USE: USE ONLY AS DIRECTED**

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid direct application onto leaves and wash off if necessary. The product must be kept out of direct UV light.
- Avoid application under climate extremes. Wear suitable protective clothing. Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.

Product can either be dry applied to the soil, preferably after irrigation, or dissolved in a volume of water sufficient to apply the recommended rate per plant or area.

Applications should be applied to at least 2 opposite sides of the plant.

**Compatibility:**

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

**Storage:**

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

**Conditions of Sale:**

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

# RECOMMENDATIONS

**All recommendations are for soil applications.**

**Rates are dependent on plant size and severity of the deficiency.**

CROP	DOSAGE RATE	REMARKS
Apples, Pears	Up to 25 - 125 g/tree	Soil application.
Citrus	5 - 25 g/tree	Young trees 1 - 3 years maintenance applications.
	20 - 50 g/tree	Young trees moderate to severe deficiency.
	50 - 150 g/tree	Mature trees maintenance application.
	200 - 500 g/tree	Mature trees moderate to severe deficiency.
Grapevines	7,5 - 15 g/vine	Soil application.
Stone Fruit (Apricots, cherries, nectarines, peaches, plums)	Up to 25 - 125 g/tree	
Ornamentals (Azaleas, rhododendrons, roses)	5 - 50 g/plant	
Macadamias	25 - 150 g/tree	
Maize	1 - 5.5 kg/ha	
Sugar Cane	5 - 10 kg/ha	





Mg

# Tsama Mg

Reg. No.B3623 • Act No. 36 of 1947

A magnesium suspension concentrate for foliar application to maintain or correct magnesium levels in crops

## FERTILIZER GROUP 2

### ACTIVE INGREDIENTS

Magnesium (Mg) 215 g/kg (300 g/l)

**SG = 1.40 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

PO Box 1372 Plettenberg Bay 6600

Tel: 044 533 1645

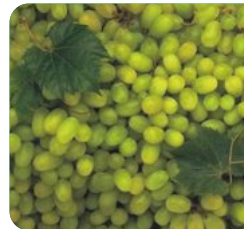
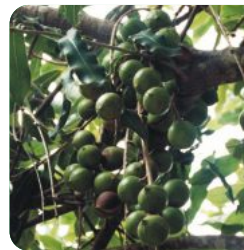
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## DIRECTIONS FOR USE: USE ONLY AS DIRECTED

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid application under dimite extremes. Wear suitable protective clothing. Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.

### Mixing instructions:

Always follow the label recommendations. Where water volume differ from typical rates as specified on the label, adjust application rates accordingly.

Shake container thoroughly before use. Pour through the top filter into ¾ filled tank. Keep agitation going. Top up with water and continue agitating whilst spraying.

### Compatibility:

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

### Storage:

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

### Conditions of Sale:

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

CROP	DOSAGE RATE	REMARKS
Apples & Pears	160 - 300 mL/100 £ water	Apply after petal fall to apply typically 4 £/ha to a max of 8 £/ha per application. Where deficiencies are severe, 1st application should be at pink (white) bud. Delay applications until 6 weeks after flowering on russet sensitive varieties. Rates are based on typical TRV of 2 500 £/ha.
Avocado	Up to 200 mL/100 £ water	Apply onto the spring flush just prior to flowering and again on autumn flush. Based on typical water rate of 2 000 £/ha.
Brassicac (Cabbage, etc.)	2 - 4 £/ha	Apply at 4 - 6 leaf stage and repeat at 10 - 14 day intervals where necessary.
Canola	2 - 4 £/ha	Apply at 4 - 6 leaf stage and 4 £/ha at stem extension stage. Do not apply during flowering. Water rate: 200 £ per ha.
Cereals	2 - 4 £/ha	Apply at 4 - 6 leaf stage. If necessary repeat application 10 - 14 days later where deficiency is moderate to severe. Water rate: 200 £/ha.
Citrus	100 - 200 mL/100 £ water	Apply typically 4 £/ha to a maximum of 8 £/ha per application. Apply onto new spring growth. Repeat application 10 - 14 days later for moderate to severe deficiencies. Where necessary, apply onto the autumn flush at the same rates as above. Water rate: Based on typical water rate of 4 000 £ water/ha.
Dry Beans, Peas, Carrots, Linseed	2 - 4 £/ha	Apply when crop is 10 - 15 cm tall. For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 200 £/ha.
Grapes	2 - 4 £/ha	Apply from 25 cm shoot length, or from flower buds visible to fruit set. Repeat applications at 10 - 14 day intervals, avoid flowering. For grape stalk necrosis, apply repeat applications of 2 - 4 £ per ha with first application at pea berry, verision and 1 month before harvest.
Groundnuts, Peanuts	2 - 4 £/ha	Apply from 4 leaf stage to the start of flowering. Water rate: 30 to 200 £/ha.
Macadamia	200 - 400 mL/100 £ water to apply 4 £/ha to a max of 8 £/ha/application	Apply onto spring flush. For moderate to severe deficiencies, repeat application 10 - 14 days later. Where necessary, apply onto the autumn flush at the same rates as above. Based on a typical water rate of 2 000 £/ha.
Maize	2 - 4 £/ha	Apply at 4 - 6 leaf stage, and repeat at 10 - 14 day intervals if necessary. Water rate 50 - 200 £ per ha.
Mango	Up to 275 mL/100 £ water	Apply during spring flush. Repeat at 10 - 14 day intervals where necessary. <b>Note:</b> Last application to be made at least one month before harvest. Based on water rate of typically 1 500 £/ha.
Nuts (deciduous)	200 - 400 mL/100 £ water	Apply from when there is enough new leaf area to intercept spray. For severe deficiencies, repeat the application 10 - 14 days later, and if necessary repeat during the autumn flush. Water rate: Typically 2 000 £ per ha.
Onions	2 - 4 £/ha	Apply two weeks after transplant, or when the crop is 15 cm tall. Repeat applications at 10 - 14 day intervals where necessary. Water rate: 75 to 200 £/ha.
Persimmons	160 - 320 mL/100 £ water	Apply 3 applications starting from petal fall and repeat at 10 - 14 day intervals where necessary. Water rate: Typically 2 500 £/ha.
Potatoes	2 - 4 £/ha	Start application 1 week after 100 % emergence. For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. For improved dry matter also apply at the above rate during tuber bulking. Water rate: 75 to 200 £/ha.
Stone Fruit (Apricots, etc.)	250 - 500 mL/100 £ water	Apply at fruit set and if necessary repeat 10 - 14 days later. Based on a typical TRV of 2 500 £/ha.
Strawberry (field grown)	2 - 4 £/ha	Apply at green bud. Water rate: 200 to 500 £/ha.
Tomato (field grown)	2 - 4 £/ha	Apply from 4 to 6 leaf stage to 1 month before harvest of first formed fruit. Allow 10 to 14 day intervals between sprays. Water rate: 500 £/ha.



Mn, Zn, Fe, Cu, B, Mo

# Tsama Mix

Reg. No. B3696 • Act No. 36 of 1947

A water soluble powder micronutrient mix containing boron, copper, iron, molybdenum, manganese and zinc trace elements for foliar application, fertigation or pivot application

## FERTILIZER GROUP 2 GUARANTEED ANALYSIS

*Manganese (Mn)	70 g/kg	*Copper (Cu)	20 g/kg
*Zinc (Zn)	50 g/kg	Boron (B)	20 g/kg
*Iron (Fe)	25 g/kg	Molybdenum (Mo)	1 g/kg

\* EDTA chelated

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

PO Box 1372 Plettenberg Bay 6600

Tel: 044 533 1645

e-mail: [info@tsama-agric.com](mailto:info@tsama-agric.com)

[www.tsama-agric.com](http://www.tsama-agric.com)

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# Tsama Mix

## DIRECTIONS FOR USE: USE ONLY AS DIRECTED

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid application under climate extremes.
- Wear suitable protective clothing.
- Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.

### Mixing instructions:

Always follow the label recommendations. Where water volume differ from typical rates as specified on the label, adjust application rates accordingly.

Shake container thoroughly before use. Pour through the top filter into ¼ filled tank. Keep agitation going. Top up with water and continue agitating whilst spraying.

### Compatibility:

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

### Storage:

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

### Conditions of Sale:

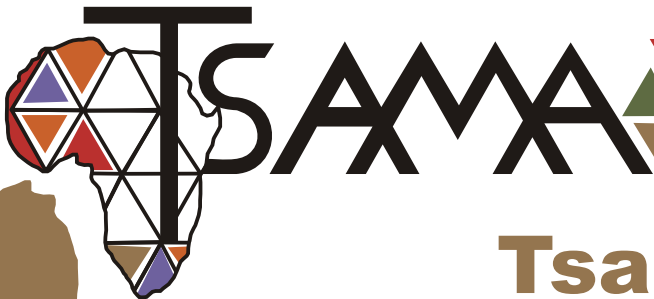
The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

### Recommendations:

Product can be applied either as a tractor spray or through the irrigation system. Water rate for tractor spray is recommended at 200 - 500 l/ha and through the irrigation at 100 000 l/ha.

Where TRV's differ from those on the label, adjust application rates per 100 l water accordingly so that the product quantity per ha applied remains the same. However, do not concentrate product up by more than 0.4%.

CROP	DOSAGE RATE	TIMING
Field crops & vegetables	0.5 - 3 kg/ha per application but not exceeding 6 kg/ha per season	Apply as soon as there is enough leaf material to intercept spray. Repeat at 10 - 14 day intervals if necessary.
Maize	1 - 3 kg/ha per application but not exceeding 6 kg/ha per season	Apply at 4 - 6 leaf stage and repeat at 6 - 8 leaf stage if necessary.
Potatoes	1 - 2 kg/ha per application to apply max 6 kg/ha per season	Apply 1 week after 100 % emergence and repeat at tuber initiation and 2 weeks later if necessary.
Lucerne & pastures	1 - 3 kg/ha but not exceeding 6 kg/ha per season	Apply after each cut or grazing when there is enough leaf material to absorb spray (typically a plant height of 10 - 15 cm). Ensure 14 days between application and grazing.
Onions	1 - 2 kg/ha per application but not exceeding 6 kg/ha per season	Apply when plant is 10 - 15cm high and repeat at bulb formation if necessary.
Macadamias & nut crops	Apply typically 100 g up to 200 g/100 l water based on TRV of 1 000 l/ha to apply 1 - 2 kg/ha per application but not exceeding a total of 6 kg/ha per season	Apply post harvest, before flowering. Repeat at 80 % petal fall if necessary.
Citrus	Apply typically 20g/100 l up to a max of 40 g/100 l water based on TRV of 6 000 l/ha to apply typically 1 kg/ha per application and a maximum of 2 kg/ha per application but not exceeding 6 kg/ha per season	Apply post harvest, before flowering and repeat at 80% petal fall if necessary.
Subtropical fruit	Apply typically 100 g/100 l to max 200 g/100 l water based on TRV of 1 000l/ha to apply typically 1 kg to a maximum of 2 kg/ha per application but not exceeding 6 kg/ha per season	Apply post harvest, before flowering and repeat at 80% petal fall if necessary.
Stone fruit	Apply typically 100 g/100 l to max 200 g/100 l water based on TRV of 1 000l/ha to apply typically 1 kg to a maximum of 2 kg/ha per application but not exceeding 6 kg/ha per season	Apply post harvest and at pink bud or at 80% petal fall if necessary.
Tomatoes & other horticultural crops	Apply 0.5 - 3 kg/ha per application, not exceeding 6 kg/ha per season	Apply from 7 days post transplant and repeat at 7 - 10 day intervals if necessary.
Vines	1 kg/ha at a maximum spray concentration of 0.1 %. Do not exceed 4 kg/ha per season.	Apply between bud break and first flowers visible or post harvest. Repeat applications may be applied at 10 - 14 day intervals if necessary.
Wheat	1 - 3 kg/ha per application. Do not exceed a total of 6 kg/ha per season.	Apply at 4 - 6 leaf stage and repeat at 10 - 14 day intervals if necessary with the last application before flag leaf visible.



# Tsama Mn

Reg. No. B3605 • Act No. 36 of 1947

A manganese suspension concentrate for foliar application to maintain or correct manganese levels in crops

## FERTILIZER GROUP 2

### ACTIVE INGREDIENT

Manganese (Mn) 250 g/kg (400 g/l)

**SG = 1.60 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

PO Box 1372 Plettenberg Bay 6600

Tel: 044 533 1645

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[www.tsama-agric.com](http://www.tsama-agric.com)

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# Mn

**DIRECTIONS FOR USE:** USE ONLY AS DIRECTED

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid application under climate extremes. Wear suitable protective clothing. Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.

**Mixing instructions:**

Always follow the label recommendations. Where water volume differ from typical rates as specified on the label, adjust application rates accordingly.

Shake container thoroughly before use. Pour through the top filter into ¾ filled tank. Keep agitation going. Top up with water and continue agitating whilst spraying.

**Compatibility:**

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

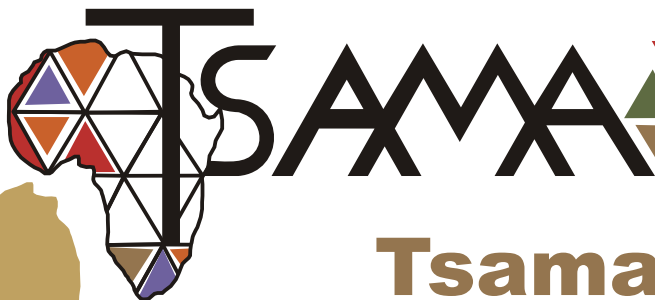
**Storage:**

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

**Conditions of Sale:**

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

CROP	DOSAGE RATE	REMARKS
Apples, Pears	Up to 50 mL/100 L water	Apply at petal fall. On russet sensitive varieties, do not begin applications until 6 weeks after flowering. Based on a typical TRV of 2 500 L/ha.
Avocado	Up to 50 mL/100 L water	Apply onto spring and/or summer flush. Based on a maximum TRV of 2 000 L/ha.
Brassicac	Up to 1 L/ha	Apply at 4 - 6 leaf stage. For moderate to severe deficiencies repeat application 10 - 14 days later. Water rate: 75 - 200 L/ha.
Canola	1 L/ha	Apply at 4 - 6 leaf stage and at repeat at stem extension. Repeat 10 - 14 days later if necessary. Avoid flowering. Water rate: 200 L per ha.
Cereals	0.5 to 1 L/ha	Apply from 2 leaf stage to 6 - 8 leaf stage. For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. Water rate: 200 L/ha. Aerial application: 1 - 2 L/ha. Apply at 6 - 8 leaf stage to end tillering. Where necessary repeat 10 - 14 days later.
Citrus	Up to 25 mL/100 L water to max 50 mL/100 L	Apply during spring and/or autumn flush. Based on a typical water rate of 4 000 L/ha.
Dry Beans, Peas	1 L/ha	Apply at 4 - 6 leaf stage and where necessary at the start and end of flowering. Water rate: 200 L/ha.
Grapevines	1 L/ha	Apply at flower buds visible, and repeat if necessary at flower buds separated and at fruit set. Water rate: 500 - 1 000 L/ha.
Groundnuts	0.25 L/ha	Apply at the 4 to 6 leaf stage. Repeat application 10 to 14 days later if necessary.
Macadamia	70 mL to max 140 mL per 100 L water	Apply to give a typical application of 1 L/ha and max 2 L/ha per application. Apply at spring flush and autumn flush. Avoid flowering. Water rate 1 500 L/ha.
Maize	1 - 2 L/ha	Apply at 4 - 8 leaf stage. For moderate to severe deficiencies repeat the application 10 - 14 days later. Water rate: 75 - 200 L/ha.
Mango	Up to 40 mL/100 L water	Apply 1 to 2 applications at bud development. Repeat through to early flush at a 10 to 14 day intervals. Based on a typical TRV of 2 500 L per ha.
Olive	Up to 100 mL/100 L water	Apply from start of the season. Repeat applications at 10 day intervals if necessary. Avoid flowering. Water rate: 1 000 L/ha.
Onions	0.5 to 1 L/ha	Apply when there is sufficient leaf area to intercept spray.
Persimmons	Up to 50 mL/100 L water	Apply from 4 weeks after petal fall and repeat if necessary at 10 to 14 day intervals. If necessary, apply 1 L/ha after harvest before leaf senescence. Based on typical water rate of 2 000 L/ha.
Potatoes	1 L/ha	Apply 1 week after 100 % emergence. For moderate to severe deficiencies repeat the application 10 - 14 days later. Water rate: 75 - 200 L/ha.
Stone Fruit (Apricots, Plums, Cherries, Nectarines, Peaches)	Up to 70 mL/100 L water	Apply at petal fall and repeat 10 - 14 days later if necessary. Based on a typical TRV of 1 500 L per ha.
Strawberry (field grown)	1 L/ha	Apply at green bud. Repeat at 10 to 14 day intervals if necessary. Water rate: 200 - 500 L per ha.
Sugar Cane	1 L/ha	Apply when cane is 30 - 90 cm tall. Repeat applications at 10 to 14 day intervals where necessary. Water rate: 30 - 200 L/ha.
Tomato (field grown)	0.5 to 1 L/ha	Apply at the 4 to 6 leaf stage and repeated at 10 to 14 day intervals where necessary. Water rate: 30 - 500 L/ha.



# Tsama Mn Start

Reg. No. B3583 • Act No. 36 of 1947

A manganese seed dressing containing seaweed extract

## FERTILIZER GROUP 2

### ACTIVE INGREDIENTS

Manganese (Mn) 250 g/kg (400 g/l)  
*Ecklonia maxima* 37.5 g/kg (60 g/l)

**SG = 1.60 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

PO Box 1372 Plettenberg Bay 6600

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e-mail: [info@tsama-agric.com](mailto:info@tsama-agric.com)

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Contents

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# Mn

**DIRECTIONS FOR USE: USE ONLY AS DIRECTED**

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid application under climate extremes. Wear suitable protective clothing. Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.

**Mixing instructions:**

Always follow the label recommendations. Shake container thoroughly before use. Any dosing equipment must be carefully calibrated to ensure correct and even application.

Product may be diluted with water by adding one part water to four parts product. Mix thoroughly before use.

**Compatibility:**

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

**Storage:**

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

**Conditions of Sale:**

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

# RECOMMENDATIONS

CROP	DOSAGE RATE (ℓ/TON SEED)
Canola	16 - 20 ℓ
Cereals	2 - 6 ℓ
Legumes	3 - 6 ℓ
Maize	5 - 8 ℓ
Peas	1 - 2 ℓ
Soya Bean	3 - 6 ℓ
Sugar Beet	Up to 60 ℓ
Sunflower	2 - 4 ℓ





# Tsama Moly-P Start

Reg. No. B3668 • Act No. 36 of 1947

A molybdenum seed dressing containing phosphorus

## FERTILIZER GROUP 2

### ACTIVE INGREDIENTS

Phosphorus (P) 68 g/kg (109 g/t)  
Molybdenum (Mo) 156 g/kg (250 g/t)

**SG = 1.60 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

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**Mo+P**

## Tsama Moly-P Start

### DIRECTIONS FOR USE: USE ONLY AS DIRECTED

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- To be used only when recommended by a suitably qualified person.

### Mixing instructions:

Always follow the label recommendations. Shake container thoroughly before use. Any dosing equipment must be carefully calibrated to ensure correct and even application.

Product may be diluted with water by adding one part water to four parts product. Mix thoroughly before use.

### Compatibility:

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

### Storage:

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

**Storage of treated seed:** Seed treated with **Moly-P Start** should be planted in the season of application. Although **Moly-P Start** should not affect the storage life of the treated seed, adverse physical storage conditions may affect held over seed. Tsama cannot therefore accept liability for stored, treated seed.

### Precautions:

Avoid application under climate extremes. Wear suitable protective clothing. Clean all equipment before and after use.

# RECOMMENDATIONS

CROP	DOSAGE RATE (ℓ/TON SEED)
Alfalfa	3 ℓ
Canola	2 - 4 ℓ
Cereals	0.5 - 2 ℓ
Legumes/Pulses, e.g. Beans, Peas	1 - 2 ℓ
Maize	2 - 4 ℓ
Soybean	1 - 2 ℓ
Sunflower	2 - 4 ℓ



S, Mg, Mn, B, Mo

# Tsama Penta S

Reg. No. B3631 • Act No. 36 of 1947

A water soluble powder fertilizer containing boron, manganese and molybdenum with magnesium and sulfur

## FERTILIZER GROUP 2

### GUARANTEED ANALYSIS

Boron (B)	51 g/kg
Manganese (Mn)	70 g/kg
Molybdenum (Mo)	2 g/kg
Magnesium (Mg)	87 g/kg
Sulfur (S)	145 g/kg

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

PO Box 1372 Plettenberg Bay 6600

Tel: 044 533 1645

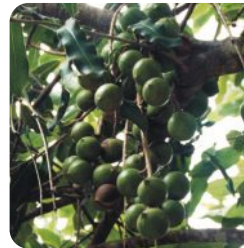
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## DIRECTIONS FOR USE: USE ONLY AS DIRECTED

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid application under climate extremes.
- Wear suitable protective clothing.
- Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.
- Do not apply onto fruit for processing.
- Do not apply during rain, frost or onto a wet crop.

### Mixing instructions:

Always follow the label recommendations. Should water rates differ from typical water rates specified on the label, adjust application rates accordingly.

Agitate container thoroughly before use. Fill tank to  $\frac{3}{4}$ , add product through top filter whilst agitating. Fill tank with water and continue agitating whilst spraying.

### Compatibility:

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

### Storage:

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

### Conditions of Sale:

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

# RECOMMENDATIONS

CROP	DOSAGE RATE	REMARKS
Canola	3 - 5 kg/ha	Apply from 3 to 6 true leaf stage. Repeat applications can be made at 10 to 14 day intervals if necessary. Avoid flowering. Water rate: 50 - 300 l/ha.
Cereal	3 - 5 kg/ha	Apply when crop is 10 - 15 cm high. Repeat applications can be made at 10 to 14 day intervals if necessary. Water rate 50 - 300 l/ha.
Citrus	Up to 175 g per 100 l water	Apply pre-flowering. Rates based on TRV of 4 000 l/ha.
Macadamia	Up to 250 g per 100 l water	Apply pre-flowering and again during nut enlargement in repeat applications at 21 - 28 day intervals. Do not exceed more than 3 applications per season. Based on TRV of 1 500 l water/ha.
Mangoes	Up to 300 g per 100 l water	Apply before flowering. Based on TRV of 1 000 l water per ha.
Onions	3 - 5 kg/ha	Apply at 4 to 8 true leaf and repeat 10 - 14 days later. Further repeat applications can be made at 10 to 14 day intervals where necessary. Water rate: 200 l/ha.
Vegetables	1 - 3 kg/ha	Start application when there is sufficient leaf cover to intercept spray. Repeat at 10 - 14 day intervals if necessary. Do not exceed more than 3 sprays per season. Water rate: 50 - 300 l/ha.



# Tsama Pitstop

Reg. No. B3581 • Act No. 36 of 1947

A calcium chloride solution for foliar application to  
maintain or correct calcium levels in crops

## FERTILIZER GROUP 2

### ACTIVE INGREDIENT

Calcium (Ca) 127 g/kg (160 g/l)

**SG = 1.26 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

PO Box 1372 Plettenberg Bay 6600

Tel: 044 533 1645

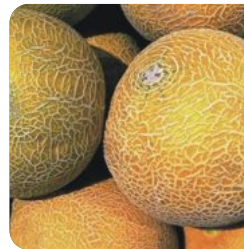
e-mail: [info@tsama-agric.com](mailto:info@tsama-agric.com)

[www.tsama-agric.com](http://www.tsama-agric.com)

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Ca

## DIRECTIONS FOR USE: USE ONLY AS DIRECTED

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid application under dimite extremes. Wear suitable protective clothing. Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.

### Mixing instructions:

Always follow the label recommendations. Where water volume differ from typical rates as specified on the label, adjust application rates accordingly.

Shake container thoroughly before use. Pour through the top filter into ¾ filled tank. Keep agitation going. Top up with water and continue agitating whilst spraying.

### Compatibility:

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

### Storage:

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

### Conditions of Sale:

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

CROP	DOSAGE RATE	REMARKS
Apples	400 mL/100 L water (up to 10 L/ha/application)	Start application from petal fall. Repeat at 10 - 14 day intervals as needed with final application one week before harvest. Based on a typical TRV of 2 500 L/ha and a maximum of 3 000 L/ha.
Avocado	500 mL/100 L water	Apply from fruit set. Repeat applications at 7 to 10 day intervals as required, ensuring last application is not less than one week before harvest. Based on a water rate of 2 000 L/ha.
Brassicas (Broccoli, Brussels Sprouts, Cabbage, Cauliflower)	5 L/ha	Apply 2 to 3 applications at 10 - 14 day intervals from stem extension/head development to harvest. Water rate: 50 - 200 L/ha.
Cereals	5 L/ha	Apply from 4 - 6 leaf stage to 7 - 8 leaf stage. Repeat applications at 10 - 14 day intervals where necessary. Water rate: 50 - 200 L/ha.
Citrus	Up to 250 mL/100 L water	Apply 3 applications 10 - 14 days apart; applied during fruit expansion to 1 week before harvest. Based on a typical water rate of 4 000 L/ha.
Dry Beans, Peas	5 L/ha	Apply at the 4 - 6 leaf stage (10 - 15 cm tall). Repeat applications can be made at 10 - 14 day intervals. Water rate: 200 L/ha.
Grapevines	8 - 10 L/ha	Apply a minimum of 3 applications, starting at 4 mm berry size. It is recommended that at least two further applications be made at stages 10 - 14 days after 4 mm diameter and at colour break (veraison). Allow 10 - 14 days between repeat applications. Water rate: 500 - 1 000 L/ha.
Groundnuts, Peanuts	5 L/ha	Apply from flowering and repeat during pod development. Water rate: 50 - 200 L per ha.
Lettuce (field grown)	5 L/ha	Apply 2 - 3 applications repeated as needed at 10 - 14 day intervals, starting from 10 - 14 days after transplanting or germination. Water rate: 50 - 500 L/ha.
Mango	Up to 350 mL/100 L water	Apply 5 L/ha/application in 3 to 5 applications at 7 - 10 day intervals from fruit set to fruit swelling. Based on a typical water rate of 1 500 L/ha.
Melon (field grown)	8 L/ha/application	Apply 3 to 5 applications at 7 - 10 day intervals, starting from early fruiting to fruit swell. Water rate: 500 - 1 000 L/ha.
Olive	Up to 700 mL/100 L water	Apply as repeat applications 10 - 14 days apart, starting from petal fall to one week before harvest. Based on typical water rate of 1 500 L/ha.
Onions	Up to 5 L/ha	Apply at bulb swelling. Repeat at 10 - 14 day intervals as needed. Water rate: 75 - 200 L/ha.
Pears	400 mL/100 L water	Apply 2 - 3 applications at 10 - 14 day intervals starting from petal fall. Based on a TRV of 2 500 L/ha and a maximum of 3 000 L/ha.
Persimmons	Up to 700 mL/100 L water	Apply after flowering and again 10 - 14 days later. Additional applications should be made 6 weeks, 4 weeks and again 2 weeks before harvest. Based on typical water rate of 1 500 L/ha.
Potatoes	5 L/ha/application	Apply 2 - 3 applications starting at tuber and repeat as needed at 10-14 day intervals. Water rate: 200 L/ha.
Protected Crops	500 mL/100 L water	Repeat at 7 day intervals until 1 week before harvest.
Stone Fruit (Apricots, Plums, Cherries, Nectarines, Peaches)	Up to 650 mL/100 L water	Apply 10 L/ha per application. Two applications should be made at 4 and 2 weeks before harvest. Based on a typical TRV of 1 500 L/ha.
Tomato (field grown)	Up to 500 mL/100 L water	Apply up to starting from early fruit set and repeat when necessary at 7 day intervals. Spray directly onto fruit.



# Tsama Plenty K

Reg. No. K7761 • Act No. 36 of 1947

A potassium organic citrate fertilizer solution

## FERTILIZER GROUP 1

### ACTIVE INGREDIENT

Potassium (K) 193 g/kg (276 g/l)

**SG = 1.43 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

PO Box 1372 Plettenberg Bay 6600

Tel: 044 533 1645

e-mail: [info@tsama-agric.com](mailto:info@tsama-agric.com)

[www.tsama-agric.com](http://www.tsama-agric.com)

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**WARNING:**

Do not apply **Plenty K** with copper sprays or on plants with copper residues.

**DIRECTIONS FOR USE:** USE ONLY AS DIRECTED

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid application under climate extremes.
- Wear suitable protective clothing.
- Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.

**Mixing instructions:**

Always follow the label recommendations. Where water volume differ from typical rates as specified on the label, adjust application rates accordingly.

Shake container thoroughly before use. Pour through the top filter into ¾ filled tank. Keep agitation going. Top up with water and continue agitating whilst spraying.

**Compatibility:**

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

**Storage:**

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

**Conditions of Sale:**

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

CROP	DOSAGE RATE	REMARKS
Apples, Pears	250 mℓ up to max 400 mℓ per 100 ℓ water	Apply the 1st application before flowering. Repeat at 10 - 14 day intervals as needed during fruit set and fruit enlargement. Avoid applications during flowering. Based on a typical TRV of 2 500 ℓ water/ha.
Avocados	250 mℓ up to max 500 mℓ per 100 ℓ water	Apply the 1st application just before flowering. Repeat applications as required during fruit set and fruit enlargement. Avoid applications during flowering. Based on typical water rate of 2 000 ℓ/ha.
Bananas	5 - 7 ℓ/ha	Apply at 10 - 14 day intervals during ripening period. Do not apply on young fruit. Do not apply in a tank mix.
Cereals	Up to 10 ℓ/ha/application	Repeat as needed. Water rate: a minimum of 40 ℓ water/ha.
Citrus	120 mℓ up to max 200 mℓ per 100 ℓ water	First application can be made before flowering and repeat at 10 - 14 day intervals from fruit set through fruit enlargement. Avoid applications during flowering. Rate based on typical water rate of 6 000 ℓ/ha.
Grapes	5 ℓ/ha/application	Apply as a pre-flower application and again from fruit set. Repeat at 4 mm and again at color break. Do not apply during flowering. Apply in response to analysis where and when necessary. Water rate: a minimum of 500 ℓ/ha.
Horticultural crops	5 - 7 ℓ/ha/application	Repeat as needed. Water rate: a minimum of 500 ℓ/ha.
Mangoes, Litchis	Up to 400 mℓ/100 ℓ water	Apply first application prior to flowering, and repeat at 10 - 14 day intervals as required during fruit set and fruit enlargement. Avoid application during flowering. Based on a typical water rate of 2 500 ℓ/ha.
Olives	450 mℓ up to max 700 mℓ/100 ℓ water per application	Start application 1 to 2 weeks after full bloom and repeat 3 to 4 weeks later. Water rate typically 1 500 ℓ per hectare.
Potatoes	Up to 10 ℓ/ha/application	Apply the first application 1 week after emergence and the second application 3 weeks later. Repeat as needed, especially during tuber bulking. Water rate: a minimum of 500 ℓ/ha.
Nuts (deciduous)	250 mℓ up to max 400 mℓ/100 ℓ water per application	Apply 1st application before flowering and repeat at 10 - 14 day intervals as required during set and fill. Avoid applications during flowering. Based on typical water rate of 2 500 ℓ/ha.
Strawberries (field grown)	5 - 10 ℓ/ha/application	Apply during fruit fill and ripening at 10 - 14 day intervals as required. Water rate: 50 - 500 ℓ/ha.
Tomatoes (field grown)	5 - 10 ℓ/ha/application	Apply 1 - 3 applications at 3 - 4 week intervals, starting just before flowering and repeat application as required at 10 - 14 day intervals during fruit set and fill. Water rate: a minimum of 50 ℓ/ha.
Turf	Up to 20 ℓ/ha	Apply as repeat applications at 14 day intervals as needed. Water rate: 200 ℓ/ha.
Vegetables	7 - 10 ℓ/ha	Apply as repeat applications at 10 - 14 day intervals during filling and ripening stage. For leafy vegetables (lettuce and cabbage), apply during heading stage. For onions, apply when crop is 10 - 15 cm high and from bulb formation through bulb fill stage as required. Water rate 50 - 500 ℓ/ha.





# Tsama Zinc

Reg. No. B3584 • Act No. 36 of 1947

A zinc suspension concentrate for foliar application to maintain or correct zinc deficiencies in crops

## FERTILIZER GROUP 2

### ACTIVE INGREDIENT

Zinc (Zn) 398 g/kg (700 g/l)

**SG = 1.76 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

PO Box 1372 Plettenberg Bay 6600

Tel: 044 533 1645

e-mail: [info@tsama-agric.com](mailto:info@tsama-agric.com)

[www.tsama-agric.com](http://www.tsama-agric.com)

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Batch number

Manufacture date



# Zn

**Precautions:**

Avoid application under climate extremes. Wear suitable protective clothing. Clean all equipment before and after use.

**DIRECTIONS FOR USE: USE ONLY AS DIRECTED**

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- To be used only when recommended by a suitably qualified person.

**Mixing instructions:**

Always follow the label recommendations. Where water volume differ from typical rates as specified on the label, adjust application rates accordingly.

Shake container thoroughly before use. Pour through the top filter into ¾ filled tank. Keep agitation going. Top up with water and continue agitating whilst spraying.

**Compatibility:**

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

**Storage:**

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

**Conditions of Sale:**

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

CROP	DOSAGE RATE	REMARKS
Apples & Pears	Up to 40 mL/100 L water	Apply at green tip/bud burst and after 80 % petal fall. A post harvest application before leaf senescence, is recommended at the same rates. Rates are based on typical TRV of 2 500 to a max 3 000 L/ha.
Avocados	Up to 50 mL/100 L water	Apply at white balloon stage or post flowering, spring flush and/or during autumn flush, ensuring last application is 60 days before harvest. Based on water rate of 2 000 L/ha.
Brassicas & Canola	Up to 2 L/ha	Apply at 4 - 8 leaf stage. Water rate 50 - 500 L/ha.
Cereals	Up to 1 L/ha	Apply at 4 - 6 leaf stage to just before flag leaf. Water rate 50 - 500 L/ha.
Citrus	Up to 25 - 50 mL per 100 L water	Apply to spray typically 1 L/ha and up to 2 L/ha per application onto spring flush and again onto autumn flush. Repeat applications 14 days later may be necessary where deficiencies are severe. Application rates based on typical water rate of 4 000 L/ha.
Macadamias	Up to 100 mL/100 L water	Apply just prior to flowering on spring flush, post flowering and/or onto autumn flush. Repeat applications 10 - 14 days after initial applications may be necessary. Based on water rate of 1 000 L/ha.
Malze	Up to 1 L/ha	Apply at 4 - 6 leaf stage and repeated at 10 - 14 day intervals if necessary. Water rate 200 - 500 L/ha.
Mangoes	Up to 40 mL/100 L water	Apply typically 1 L/ha to a max of 1,5 L/ha per application. Apply onto new flush, just prior to flowering. Avoid flowering. For moderate to severe deficiencies, apply onto autumn flush, ensuring applications are completed 1 month before harvest. Based on water rate of 1 500 L/ha.
Potatoes	Up to 1 L/ha	Apply 1 week after 100 % emergence and repeat at 10 - 14 day intervals where necessary. Water rate: 200 - 500 L/ha.
Pastures	Up to 1 L/ha	Apply when crop is 10 - 15 cm high. Repeat applications 10 - 14 days apart if necessary. Water rate: 200 - 500 L/ha.
Stone Fruit	70 mL/100 L water max 130 mL/100 L water	Apply typically 1 L/ha and a maximum of 2 L/ha per application beginning at bud swell, and repeat at white bud (pink bud for peaches) and/or at fruit set where necessary. Apply same rate as a post harvest spray onto active leaf before leaf senescence. Based on typical TRV of 1 500 L/ha.
Sugar Cane	Up to 1 L/ha	Apply when crop is at 4 - 6 leaf stage (40 - 60 cm high). Water rate: 200 - 500 L/ha.
Vines	Up to 1 L/ha	Apply from 10 cm shoot length, repeated if necessary at flower buds visible, flower buds separated and/or at fruit set. Where necessary, apply 1 L/ha post harvest onto active leaf. Water rate: 200 - 1 000 L/ha.



# Tsama Zinc Start

Reg. No. B3585 • Act No. 36 of 1947

A zinc, phosphate and molybdenum seed dressing containing seaweed extract

## FERTILIZER GROUP 2

### ACTIVE INGREDIENTS

Phosphorus	(P)	60 g/kg	( 84 g/l)
Zinc	(Zn)	188 g/kg	( 263 g/l)
Molybdenum	(Mo)	3.9 g/kg	( 5.5 g/l)
<i>Ecklonia maxima</i>		43 g/kg	( 60 g/l)

**SG = 1.40 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

PO Box 1372 Plettenberg Bay 6600

Tel: 044 533 1645

e-mail: [info@tsama-agric.com](mailto:info@tsama-agric.com)

[www.tsama-agric.com](http://www.tsama-agric.com)

Contents

Batch number

Manufacture date



**Zn, P, Mo**

**Precautions:**

Avoid application under climate extremes. Wear suitable protective clothing. Clean all equipment before and after use.

**DIRECTIONS FOR USE:** USE ONLY AS DIRECTED

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- To be used only when recommended by a suitably qualified person.

**Mixing instructions:**

Always follow the label recommendations. Shake container thoroughly before use. Any dosing equipment must be carefully calibrated to ensure correct and even application.

Product may be diluted with water by adding one part water to four parts product. Mix thoroughly before use.

**Compatibility:**

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

**Storage:**

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

**Conditions of Sale:**

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

# RECOMMENDATIONS

CROP	DOSAGE RATE (ℓ/TON SEED)
Canola	15 ℓ
Cereals	2 - 6 ℓ
Dry Beans	8 ℓ
Maize	Up to 8 ℓ
Onion	10 - 15 ℓ
Soya Bean	8 ℓ



# Tsama zinc Triple

Reg. No. B3651 • Act No. 36 of 1947  
A manganese, copper and zinc suspension concentrate mix

## FERTILIZER GROUP 2

### ACTIVE INGREDIENT

Manganese (Mn)	184 g/kg	(340 g/l)
Copper (Cu)	95 g/kg	(175 g/l)
Zinc (Zn)	30 g/kg	( 55 g/l)

**SG = 1.85 @ 20°C**

Manufactured for and distributed by:

**Tsama Agricultural Agencies**

Reg. No.: 1996/030270/23 CK

PO Box 1372 Plettenberg Bay 6600

Tel: 044 533 1645

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[www.tsama-agric.com](http://www.tsama-agric.com)

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Mn + Cu + Zn

## Tsama Zinc Triple

### DIRECTIONS FOR USE: USE ONLY AS DIRECTED

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid application under climate extremes.
- Wear suitable protective clothing.
- Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.

### Mixing instructions:

Always follow the label recommendations. Where water volume differ from typical rates as specified on the label, adjust application rates accordingly.

Shake container thoroughly before use. Pour through the top filter into  $\frac{3}{4}$  filled tank. Keep agitation going. Top up with water and continue agitating whilst spraying.

### Compatibility:

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

### Storage:

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

### Conditions of Sale:

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

# RECOMMENDATIONS

CROP	DOSAGE RATE	REMARKS
Beans & Peas	0.5 - 1.0 $\ell$ /ha	Apply when crop is 10 - 15cm high. Repeat at 10 - 14 day intervals if necessary.
Cereals	0.5 - 2.0 $\ell$ /ha	Apply at 4 - 6 leaf stage and repeat if necessary at 6 - 8 leaf stage. Avoid application onto flag leaf. Water rate: 200 $\ell$ /ha.
Citrus	Up to max of 50 m $\ell$ /100 $\ell$ water	Apply after harvest and before flowering. Not to be used during flowering or fruit development. Based on typical water rate of 4 000 $\ell$ /ha.
Grapes	0.5 - 1.0 $\ell$ /ha	Apply before flowering. Water rate: 500 - 1 000 $\ell$ /ha.
Grass	0.5 - 1.0 $\ell$ /ha	Apply 10 - 14 days before grazing, avoiding application onto pastures being grazed by sheep. Water rate: 75 - 300 $\ell$ /ha.
Macadamias	Up to max of 100 m $\ell$ /100 $\ell$ water	Do not apply during flowering or when there is fruit on the tree. Based on a typical water rate of 1 000 $\ell$ /ha.
Maize	0.5 - 1.0 $\ell$ /ha	Apply at the 4 to 8 leaf stage. Water rate: 75 - 200 $\ell$ /ha.
Olives	Up to 100 m $\ell$ /100 $\ell$ water	Typically apply 1 $\ell$ /ha and max 1.5 $\ell$ /ha, before flowering. Based on water rate of 1 000 $\ell$ /ha.
Onions	0.5 - 1.0 $\ell$ /ha	Apply two weeks after transplanting or when crop is 15 cm high. Repeat applications at 10 - 14 day intervals if necessary.
Potatoes	0.5 - 1.0 $\ell$ /ha	Apply one week after 100 % emergence and repeat if necessary at 10 - 14 day intervals. Water rate: 200 $\ell$ /ha (30 $\ell$ /ha for aerial application).
Sugar Cane	0.25 - 1.0 $\ell$ /ha	Apply at the 4 to 8 leaf stage. Water rate: 200 $\ell$ /ha.
Tea	0.25 - 1.0 $\ell$ /ha	Apply during the plucking season; repeat at 4 week intervals where necessary. Water rate: 30 - 500 $\ell$ /ha. For aerial application apply at same rates and timings. Water rate: 30 $\ell$ water/ha.



# Zinc Tsamate

Reg. No. B3994 • Act No. 36 of 1947

A water soluble powder containing zinc for foliar application, fertigation or pivot application.

FERTILIZER GROUP 2

ACTIVE INGREDIENT

Zinc (Zn) 150 g/kg

Manufactured for and distributed by:  
**Tsama Agricultural Agencies**  
Reg. No.: 1996/030270/23 CK  
PO Box 1372 Plettenberg Bay 6600  
Tel: 044 533 1645  
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[www.tsama-agric.com](http://www.tsama-agric.com)

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Batch number

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Zn

## Zinc Tsamate

### DIRECTIONS FOR USE: USE ONLY AS DIRECTED

- To be used only where there is a recognized need.
- Do not exceed the appropriate application rates.
- Avoid application under climate extremes.
- Wear suitable protective clothing.
- Clean all equipment before and after use.
- To be used only when recommended by a suitably qualified person.
- Always read the label before using the product.

### Mixing instructions:

Always follow the label recommendations. Where water volume differs from typical rates as specified on the label, adjust application rates accordingly. Shake container thoroughly before use. Pour through the top filter into ¾ filled tank. Keep agitation going. Top up with water and continue agitating whilst spraying.

### Compatibility:

Read all labels carefully. This product may be compatible with many agrochemicals. Check with your supplier before tank mixing or contact Tsama Agricultural Agencies.

### Storage:

Keep in a cool dry chemical store, out of reach of children and livestock. Protect from frost and heat extremes.

### Conditions of Sale:

The registration holder warrants that the product within the unopened container conforms technically to the description on this label. The directions on this label must be followed carefully. As the use of this product is beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of use or results obtained. Use of the product implies purchaser accepts these conditions of sale.

CROP	DOSAGE RATE	REMARKS
Field crops and vegetables	0.25 - 3 kg/ha/application but not exceeding 6 kg/ha/season	Apply as soon as there is enough leaf material to intercept spray. Repeat at 10 - 14 day intervals if necessary.
Fruit trees	Typically 80 g/100 ℓ water up to max of 200 g/100 ℓ water, based on water rate of 1 500 ℓ/ha, to apply max 3 kg/ha/application	Apply before flowering and/or at 100% petal fall.
Maize	1 - 3 kg/ha/application but not exceeding 5 kg/ha/season	Apply at 4 - 6 leaf stage and repeat at 6 - 8 leaf stage if necessary.
Potatoes	1 - 2 kg/ha/application to apply max 4 kg/ha/season	Apply 1 week after 100 % emergence and repeat at tuber initiation and 2 weeks later if necessary.
Lucerne and pastures	1 - 3 kg/ha but not exceeding 6 kg/ha /season	Apply after each cut/grazing when there is enough leaf material to absorb spray (typically a plant height of 10 - 15 cm). Ensure 14 days between application and grazing.
Onions	1 - 2 kg/ha/application but not exceeding 4 kg/ha/season	Apply when plants are 10 – 15 cm high and repeat at bulb formation if necessary.
Macadamias and nut crops	Apply typically 100 g up to 200 g/100 ℓ water based on TRV of 1 000 ℓ/ha to apply 1 - 2 kg/ha/application but not exceeding a total of 6 kg/ha/season	Apply post harvest and before flowering and repeat at 80 % petal fall if necessary.
Citrus	Apply typically 20 g/100 ℓ up to a max of 40 g/100 ℓ water based on TRV of 6 000 ℓ/ha to apply typically 1 kg/ha/application and a maximum of 2 kg/ha/application but not exceeding 6 kg/ha/season	Apply post harvest and before flowering and at 80% petal fall if necessary.
Subtropical fruit crops	Apply typically 100 g/100 ℓ to a max of 200 g/100 ℓ water ( based on TRV of 1 000 ℓ/ha) to apply typically 1 kg to a maximum of 2 kg/ha/application but not exceeding 6 kg/ha/season	Apply post harvest and before flowering and repeat at 80 % petal fall if necessary.
Stone Fruit	Apply typically 80 g/100 ℓ to a max of 200 g/100 ℓ water (based on TRV of 1 500 ℓ /ha) to apply typically 1 kg to a maximum of 2 kg/ha/application but not exceeding 4 kg/ha/season	Apply post harvest and at pink bud or at 80 % petal fall if necessary.
Tomatoes and other horticultural crops	Apply 0.5 - 3 kg/ha/ application, not exceeding 6kg/ha/season	Apply from 7 days post transplant and repeat at 7 - 10 day intervals if necessary.
Vines	1 kg/ha at a maximum spray concentration of 0.1%. Do not exceed 4 kg/ha per season	Apply between bud break and first flowers visible or post harvest. Repeat applications may be applied at 10 - 14 day intervals if necessary.
Wheat	1 - 3 kg/ha/application. Do not exceed a total of 6 kg/ha/season	Apply at 4 - 6 leaf stage and repeat at 10 - 14 day intervals if necessary with the last application before flag leaf visible.
Soil Applications	Annual Crops : 1 - 10 kg/ha Perennial trees: 5 - 50 g /tree up to 5 kg/ha/ application Perennial shrubs : 5 - 20 g /plant	Can be dissolved in water or applied dry onto soil pre or post planting. Irrigate with approximately 2 mm as soon after application as possible.