



**PRODUCT INFO  
& DATASHEET**

## ***FERTILISATION PROGRAM FOR MANGO TREES***

### **Mango fertiliser: a fertilisation program for mango trees.**

SICOGREEN-HP water soluble NPK fertilisers provide an effective source of potassium/phosphorus and nitrogen for the mango tree. Furthermore POTASNIT-GG Potassium Nitrate (KNO<sub>3</sub>) 13.0.46 fertiliser has a positive effect on the fruit retention, fruit size and yield. Foliar nutrition with POTASNIT-GG at application rate of 2% increased yield by 2.6 MT per hectare. See also our wide range of SICOCHL/PROCHL/CHELASTAR/ATTACK/LIQUISTAR ranges of water soluble and liquid chelated micronutrients for fertigation and foliar application for quick cures of micronutrient deficiencies in field crops, vegetables and fruit trees.

### **1/ Young, non-bearing trees.**

#### **Recommendations for fertigation (in Thailand)**

Soil type: Medium - Heavy Plant

Density: 125 - 156 tree/ha.

Non-Bearing trees: (1-3 years).

Based on 150 irrigation days/year.

Age of trees (years)	Fertilisers	Rate (g/tree)	N (g/tree/year)	P <sub>2</sub> O <sub>5</sub> (g/tree/year)	K <sub>2</sub> O (g/tree/year)
1	SICOGREEN 20.20.20 + CTE	3	90	90	90
2	SICOGREEN 20.20.20 + CTE	5	150	150	150
3	SICOGREEN 18.18.21 + 0.5 MgO + CTE	7	147	74	220

Application rates should be adjusted according to soil and leaf analysis, wherever available.

### **2/ Mature, bearing trees.**

#### **Nutrients removal in 1 MT/ha of yield.**

N (kg/ha)	P <sub>2</sub> O <sub>5</sub> (kg/ha)	K <sub>2</sub> O (kg/ha)	Ca (kg/ha)	Mg (kg/ha)
6.53	1.73	7.46	5.53	2.95

#### **A general guideline for splitting K application in fertigation programs for mango.**

Growth stage	Share of K <sub>2</sub> O at stage (%)	Recommended rate (kg/ha of K <sub>2</sub> O)
Leaf emergence	15	15
Flowering	20	20
Fruit-set	25	25
Fruit growth	25	25
Fruit maturation	15	15
<b>Total</b>	<b>100</b>	<b>100</b>

1. First spray: When leaves are in mature-dormant stage.

2. Second spray: Oftentimes, if flowering is poor or does not occur, a second spray using low concentration of KNO<sub>3</sub> should be applied 10-14 days after the first spray. This procedure can increase flowering in mango.

During wet months (July to November): 2 to 2.5 % KNO<sub>3</sub> is recommended.

During dry months (December to May): a lower concentration of 1 – 1.5% KNO<sub>3</sub> is recommended.

### **SICOGREEN-HP's (potassium nitrate based)**

**Foliar feeding:** Any fertiliser applied to the tree via the soil cannot be utilised by the developing flowers, foliar spray is needed. When POTASNIT Potassium Nitrate is sprayed on the tree it becomes a fast and effective source of potassium and nitrogen.

It is recommended to spray twice:

1. First spray: Apply 1 to 2 percent KNO<sub>3</sub> solution at about 42 days after flower induction. The first application is done to encourage fruit setting and minimize fruit drop.

2. Second spray: For the second spray, apply 1 to 2 percent KNO<sub>3</sub> solution at about 65 days after induction. This is done to increase fruit size.

### **Fruit retention & yield increase:**

1. First spray: When panicles in shoot are 3-15 cm.

2. Second spray: When 50% to 100% of panicles are in anthesis.