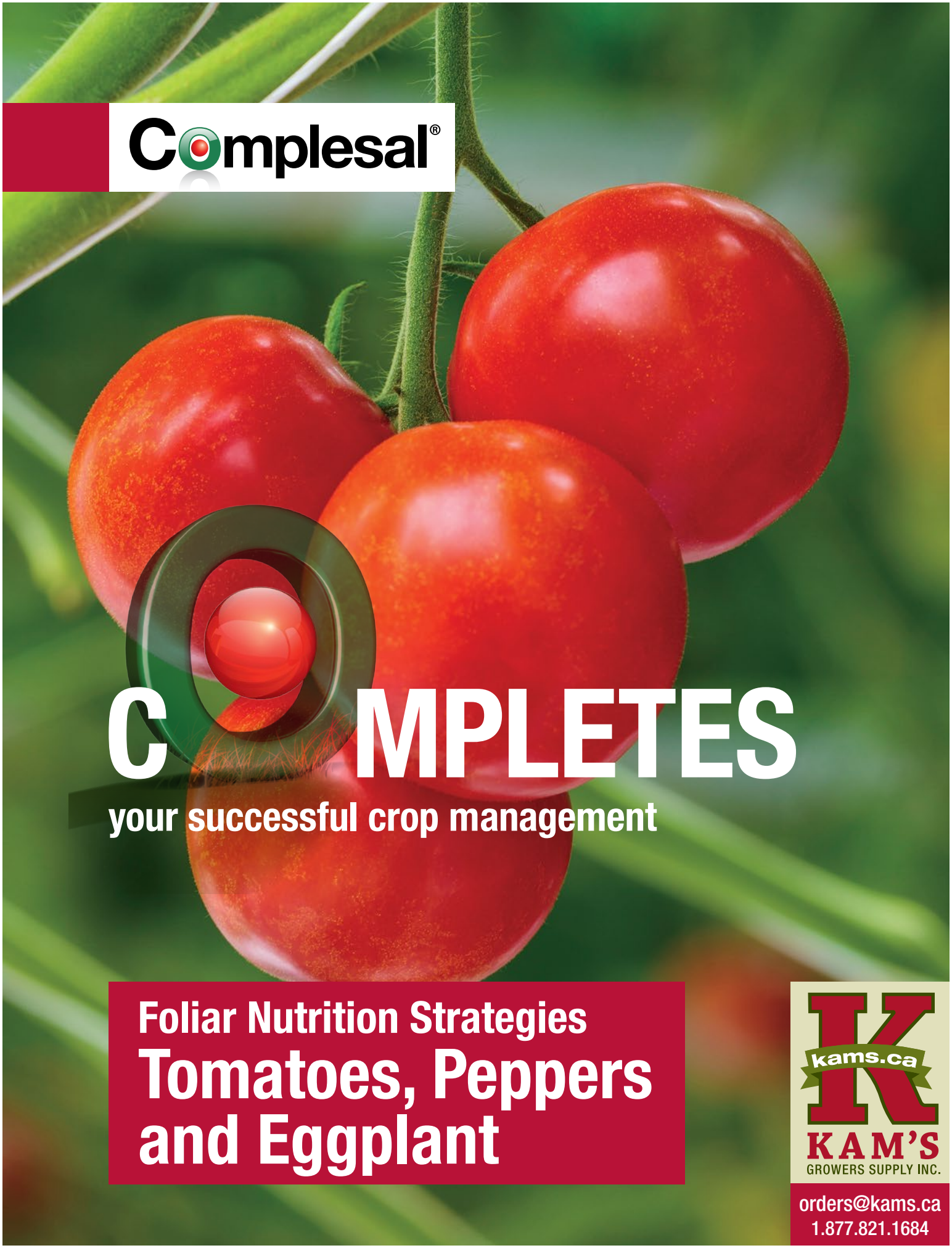

Complesal®
COMPLETES
your successful crop management
Foliar Nutrition Strategies
Tomatoes, Peppers and Eggplant
kams.ca
KAM'S
GROWERS SUPPLY INC.
orders@kams.ca
1.877.821.1684

Foliar Strategies for Tomatoes, Peppers and Eggplant

Growth Stage	Product	L/ha
Pass 1 6–8 inches of top growth	Macro Z	3.5
Pass 2 Prior to or at bloom	Microplant Mg + K25	2.34 + 2.34
Pass 3 Fruit Set	Microplant Mg + Calcium	2.34 + 2.34
Pass 4 14 days after fruit set	Microplant Mg + Calcium	2.34 + 2.34
Pass 5 Late season, crop finishing	Microplant Mg	1.17

Treatment Options

Complesal Product	Purpose
Calcium	Prevention of tip burn
	Improvement of quality, condition and shelf-life
Boron	Prevention of B deficiency
	Improved fruit set and yield
Microplant Mg	Multiple micronutrient deficiencies
Macro Z	During physiological stress conditions
	Improved performance of crop protection products
K25	Improved brix degrees

Always follow label requirements for rates, timing of application, adjuvant requirements and mixing order of all tank mix combinations. Listed spray programs are recommendations only. Consult your local extension specialist or certified crop advisor about your specific foliar needs.

Application Options

Complesal®

Pass 1: 6–8 Inches of Top Growth

Product	Rate/ha	N	P_2O_5	K_2O	Ca	Mg	S	B	Cu	Fe	Mn	Mo	Zn
Macro Z	3.5 L	10.0%	10.0%	10.0%			0.13%	0.02%	0.05%	0.10%	0.05%	0.001%	2.0%

Pass 2: Prior to or at Bloom

Microplant Mg	2.34 L	5.0%		10.0%		1.8%	5.2%	0.30%	0.50%	1.00%	1.50%	0.010%	1.00%
K25	2.34 L	3.0%		25.5%		1.2%	4.0%	0.02%	0.05%	0.10%	0.50%	0.001%	0.05%

Pass 3 & 4: At Fruit Set and again 14 Days after Fruit Set

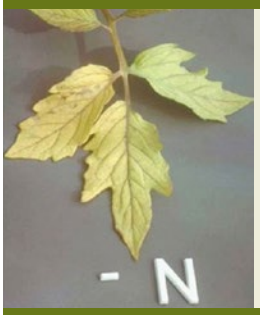
Microplant Mg	2.34 L	5.0%		10.0%		1.8%	5.2%	0.30%	0.50%	1.00%	1.50%	0.010%	1.00%
Calcium	2.34 L	10.0%			10.7%	1.2%		0.05%	0.04%	0.05%	0.10%	0.001%	0.02%

Pass 5: Late Season of Crop Finishing

Microplant Mg	1.17 L	5.0%		10.0%		1.8%	5.2%	0.30%	0.50%	1.00%	1.50%	0.010%	1.00%

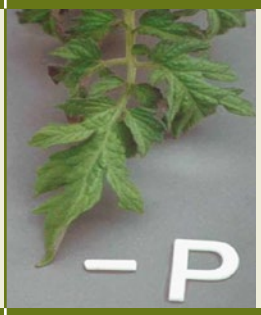
Deficiency Symptoms

Nitrogen Deficiency



- Older leaves pale first
- New leaves are smaller
- Reduced branching
- Faster leaf wilt under drought stress

P Deficiency



- Dwarf and stunted plants
- Slow growth
- Purpling of stem and underside of leaves
- Brown netted veining of mature leaves under severe stress

K Deficiency

- Chlorosis of the leaf margins
- Eventual necrosis of the interveinal leaf area
- Green veins with curled leaves
- Evident on young leaves

S Deficiency

- Distinct reddish color in veins and petioles
- Uniform yellowing over entire plant, not just young leaves
- Erect, twisted and brittle leaves
- Advanced cases have necrotic spots along the petiole

Ca Deficiency

- Burning of end of the fruit (blossom end-rot).
- Necrosis at the base of the leaf
- Soft dead tissue near rapidly growing areas
- Downward cupped leaves

Fe Deficiency

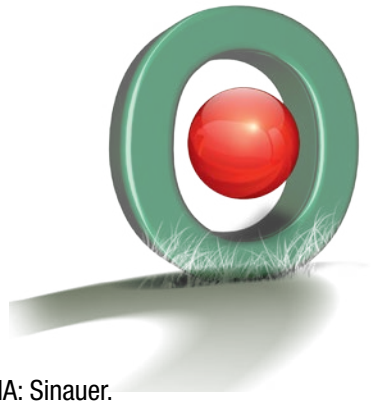
- Interveinal chlorosis of young leaves
- Chlorosis at the base of the leaves with green veinal netting
- Severely deficient leaves develop necrotic spots
- More common on calcareous soils and anaerobic conditions

Mg Deficiency

- Interveinal chlorosis similar to Fe
- Eventual gray metallic sheen
- Dark, freckled necrotic areas along the veins

Zn Deficiency

- Yellowing of the younger leaves
- Pitting on the interveinal surfaces of mature leaves
- Intense interveinal necrosis while veins remain green



Photos courtesy of Taiz, L. and Zeiger, E. (2006). A Companion to Plant Physiology. 4th ed. online. Sunderland, MA: Sinauer.

Technology

Complesal®

Benefits of Foliar Fertilization

Foliar nutrition is the ultimate tool for managing plant stress, delivering targeted nutrients during peak demand and efficiently addressing deficiencies in the plant at the right time.

- Improve plant health
- Direct delivery of nutrients
- Address nutrient deficiencies
- Offset poor soil uptake
- Deliver nutrients to specific areas of demand within the plant
- Offset poor nutrient distribution within the plant
- Promote root absorption
- Stimulate photosynthesis

ANTI-EVAPORANTS

- **Benefit:** Long-lasting spray film

Droplets reach the leaf surface even under hot conditions and nutrients remain in a dissolved form.

BUFFERING AGENTS

- **Benefit:** Improves stability of the spray solution and provides optimum nutrient availability when tank-mixing with many common crop protection products.

MISCIBILITY

- **Benefit:** Application and handling efficiencies result from tank mixing Complesal formulations with many common crop protection products.

STICKERS

- **Benefit:** Reduced loss due to rain

Stickers increase nutrient adhesion on the leaf surface.

SURFACTANTS

- **Benefit:** Maximized uptake area

Droplets spread evenly on the leaf. The covered surface is maximized.

HUMECTANTS

- **Benefit:** More efficient foliar fertilization

Ambient water from the air is attracted and re-moisturizes the leaf surface.

STRONG CHELATING AGENTS

- **Benefit:** Ensures the water solubility required for plant uptake and utilization.