



GROWTH POWERED BY INNOVATION



SILICA

0-0-1

MONOSILICIC ACID + MICRONUTRIENTS

Bio-available Monosilicic Acid promotes better cell wall structure in plants and improves plants ability to cope with drought and temperature variables

| GUARANTEED ANALYSIS | |
|-----------------------------------|-------|
| Soluble Potash (K ₂ O) | 1% |
| Boron (B) | 0.04% |
| Manganese (Mn) | 0.10% |
| Molybdenum (Mo) | 0.02% |
| Zinc (Zn) | 0.10% |

Derived From: Potassium Silicate, Boric Acid, Manganese Sulfate, Zinc Sulfate, Sodium Molybdate

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS: 2.5% Monosilicic Acid

DIRECTIONS
Compatible with all growing mediums. Mix 0.6 ml per gallon of water with every feeding from first roots to the final flower feeding week. Add to reservoir and mix before adding other nutrients.

Visit our webpage for complete feed charts, PH and EC/PPM recommendations.
GrowGeneration.com

1 QUART

1 GALLON

2.5 GALLON

5 GALLON

SUNLEAVES SILICA is a powerful, concentrated silicic acid product formulated to improve plant structure, promote cell wall strength and increase your plants' ability to withstand environmental stress. It boasts 2.5% Monosilicic Acid and 1% plant available silicon while also containing added beneficial micronutrients. It is 100% soluble and is compatible with all growing mediums. In nature, microbes in the soil slowly break down silicon into a plant available form known as Monosilicic Acid, but in a controlled garden environment, this key element is often missing. Sunleaves Silica feeds bio-available Monosilicic Acid right to the plants roots and allows them to thrive.



BASE

8-5-13

MICRO & MACRO NUTRIENTS + CAL-MAG

Runs clean, dissolves rapidly in water
Compatible with virtually any type of growing system or media

| GUARANTEED ANALYSIS | |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total Nitrogen (N) | 8% |
| 7% Water Soluble Nitrogen | 0.02% Chelated Iron (Fe) |
| 1% Ammoniacal Nitrogen | Magnesium (Mg).....0.07% |
| Available Phosphorus (P ₂ O ₅).....1% | 0.07% Chelated Manganese (Mn) |
| Soluble Potash (K ₂ O).....13% | Molybdenum (Mo).....0.001% |
| Calcium (Ca).....13% | Derived From: Calcium Nitrate, Potassium Nitrate, Potassium Sulfate, Manganese Sulfate, Magnesium Sulfate, Boric Acid, DTPA, Manganese EDTA, and Ammoniacal Molybdate |
| Magnesium (Mg).....3.5% | |
| 2.5% Water Soluble Magnesium | |
| Boron (B).....0.02% | |

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1 LB

5 LBS

20 LBS

100 LBS

440 LBS

SUNLEAVES BASE is a complete all-in-one base nutrient formulation that contains and incorporates the essential major nutrients (Nitrogen, Phosphorus, Potassium), macronutrients (Calcium, Magnesium), and micronutrients (Boron, Iron, Manganese, Molybdenum) required for healthy plant growth and development. It can be used through-out all stages of the plant life-cycle. The all-in-one formula eliminates the need for multiple products for differing stages and nutrients requirements. It is compatible with virtually any growing system or medium and is completely soluble in water.



ROOT

1.3-0-0.7

ROOT STIMULANT + PROTEIN HYDROLYSATE

A proprietary blend of nutrients designed to enhance root development and provide explosive root growth.

| GUARANTEED ANALYSIS | |
|-----------------------------------|------|
| Total Nitrogen (N) | 1.3% |
| 1.3% Water Soluble Nitrogen | |
| Soluble Potash (K ₂ O) | 0.7% |

Derived From: Plant Protein Hydrolysate, Potassium Hydroxide

Microbes regarding the content and level of starch in this product is available on the internet at www.sunleaves.org/feeds.html

DIRECTIONS
Mix 1.1 ml to every gallon of water (0.25 ml per liter). Use at every feeding during the first 2 weeks of the vegetative stage of the plant growth.

Visit our webpage for complete feed charts, PH and EC/PPM recommendations.
GrowGeneration.com

1 QUART

1 GALLON

2.5 GALLON

5 GALLON

SUNLEAVES ROOT contains a potent blend of nutrients and plant extracts designed to enhance root development and provide explosive root growth. It is a powerful root stimulator that promotes root health, development, and aids in creating the ideal environment for root growth in any medium. It contains concentrated amino acids (the building blocks of life), protein hydrolysate, and proprietary plant extracts that help improve nutrient uptake, stimulate production and growth of new roots and improve plants overall rhizosphere health. A healthy rhizosphere (root zone) helps in preventing harmful diseases and pathogens from affecting the roots and plant and allow for greater nutrient absorption.



PK+CARB

0-25-15

PK BOOSTER + CARBOHYDRATES

PK + Carb provides your plants the extra Phosphorus and Potassium needed to maximize productivity during the flowering cycle.

| GUARANTEED ANALYSIS | |
|---------------------------------------------------------------|--|
| Available Phosphorus (P ₂ O ₅).....25% | |
| Soluble Potash (K ₂ O).....15% | |
| Magnesium (Mg).....2% | |
| 2.5% Water Soluble Magnesium | |

ALSO CONTAINS NON-PLANT FOOD

BIOSOLUBLE
1% Sucrose (saccharide feed)
3% Maltese (starch feed)
4.5% Maltodextrin (starch feed)

DIRECTIONS
Use 1-2 grams per gallon of water once per week or with every feeding in weeks 5-7 of bloom.

Visit our webpage for complete feed charts, PH and EC/PPM recommendations.
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1 LB

5 LBS

20 LBS

100 LBS

SUNLEAVES PK+CARB is a concentrated, scientifically formulated bloom booster and flower enhancer developed to maximize plant productivity during the critical flowering stage. It provides an extra boost of Phosphorus and Potassium to your plants and also contains simple and complex carbohydrates and sugars to improve taste, aroma, and essential oil production. These elements are key to ensuring the best harvest quality, yield and help to ensure vigorous fruit and flower development.

SUNLEAVES FEED CHART

| All amounts are per gallon of water | BASE | PK-CARB | ROOT | SILICA |
|-------------------------------------|-------|---------|---------------------|--------|
| VEG | | | | |
| WEEK 1 | 4-5g | – | 1.1ml | 0.6ml |
| WEEK 2 | 4-5g | – | 1.1ml | 0.6ml |
| WEEK 3 | 4-5g | – | 1.1ml (Optional) | 0.6ml |
| WEEK 4 | 4-5g | – | 1.1ml (Optional) | 0.6ml |
| FLOWER | | | | |
| WEEK 1 | 5-6g | – | 1.1ml (Optional) | 0.6ml |
| WEEK 2 | 5-6g | – | – | 0.6ml |
| WEEK 3 | 5-6g | 1-2g | – | 0.6ml |
| WEEK 4 | 4-5g | 1-2g | – | 0.6ml |
| WEEK 5 | 4-5g | 1-2g | – | 0.6ml |
| WEEK 6 | 4-5g | 1-2g | – | 0.6ml |
| WEEK 7 | 4-5g | 1-2g | – | 0.6ml |
| WEEK 8 | 4-5g | – | – | – |
| WEEK 9 | FLUSH | | | |

TIPS FOR MIXING NUTRIENT SOLUTION

1. When building nutrients solution always add Silica to source water first and mix thoroughly before adding other nutrients
2. If source water is higher than 200 PPM or .3 EC you may want to employ an RO and/or de-chlorinator or sediment filter
3. Maintain optimal PH range in reservoir of 5.7 - 6.3 using ph up/down of your choice
4. Optimal nutrient solution temperature is between 65 and 75 degrees Fahrenheit
5. Change nutrient solution every 7-14 days if running a recirculating system, top off as needed between changes
6. If you are running a drain to waist system allow 10-15% runoff to minimize salt build up in media
7. Introduce any beneficial microbes to nutrient solution after all other nutrients have been added and PH has been adjusted
8. If nutrient solution contains beneficial microbes aerate the reservoir
9. This is a guide only, individual results will vary based on genetics, and growing environment



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