

The SQM logo is a green circle with a white swoosh at the bottom, containing the letters 'SQM' in white.**SQM**

Solutions
for human
progress

The latest revolution in plant performance

A white and purple bag of Ultrasoline K Plus fertilizer. The bag features the SQM logo, the product name 'Ultrasoline K Plus', the chemical formula '13.7-0-46', and a hazard diamond with the number '5.1'. It also includes a UN 1486 label and the net weight '22.7 kg / 50 lb'.

Ultrasoline[®]
K Plus

Science shows that plants need iodine

Ultrasol[®]ine K Plus is SQM's brand of potassium nitrate that contains the newly discovered plant nutrient iodine.



Improved root growth



Optimal nitrogen metabolism



Improved canopy development and
branching



Optimal photosynthesis



Improved tolerance to oxidative stress



Improved flowering and fruit quality



Improved calcium concentration in the
fruit and better shelf life

Potassium

An essential nutrient for yield and quality

- Promotes the production of proteins
- Promotes photosynthesis
- Intensifies the transport and storage of carbohydrates
- Improves uptake efficiency of N fertilizers
- Improves water use efficiency
- Promotes lycopene synthesis

Nitrate

The preferred nitrogen source

- Non-volatile
- Promotes the uptake of cations (K^+ , Ca^{++} , Mg^{++})
- Nitrate is readily absorbed by the plant
- Nitrate limits the uptake of chloride
- Efficient conversion to amino acids in the leaves

Benefits of **Ultrasol[®]ine K Plus:**

Root growth	<ul style="list-style-type: none"> • More and better developed primary and secondary roots • Improved active uptake of water and nutrients
Nitrogen conversion	<ul style="list-style-type: none"> • Optimized conversion of nitrate to proteins • Reduced cell damage by reactive oxidized nitrogen forms
Plant growth (above ground)	<ul style="list-style-type: none"> • Increased growth rate of above ground biomass • Increased yield • Earlier harvest • Improved stem branching for a better interception of light
Photosynthesis	<ul style="list-style-type: none"> • Higher concentration of chlorophyll • Better conversion of solar energy to chemical energy • Increased conversion of CO_2 to sugars
Tolerance to abiotic stress	<ul style="list-style-type: none"> • Higher level of antioxidants like vitamin C and polyphenols • Mitigating loss of production from adverse environmental conditions
Flowering and fruit quality	<ul style="list-style-type: none"> • Better fruit set, leading to more uniform fruit size • Better colour and earlier ripening of fruits with a higher sugar content
Fruit rot and shelf life	<ul style="list-style-type: none"> • Less fruit rot and enhanced shelf life by increased Ca concentration in the fruits • Improved water transport by better photosynthesis and root function, increases translocation of calcium to the fruits

Properties of **Ultrasol[®]ine K Plus**



Ultrasol[®]ine K Plus makes it easy for farmers to ensure the right amount of iodine in the nutrient solution, and prevents excess uptake of iodine in leaves or fruits.

Nutrient content (%)	
Nitric nitrogen ($N-NO_3^-$)	13.7% min
Potassium oxide (K_2O)	46% min
Solubility (g/l at 20°C)	316
Insolubles	<0.02%
EC (1 g/l at 25°C, in mS/cm)	1.35
Color	White

DISCLAIMER

All information is given to the best of SQM's knowledge and is believed to be accurate. Your conditions of use and application of the suggested products and recommendations are beyond our control. There is no warranty regarding the accuracy of any given data or statements. SQM specifically disclaims any responsibility or liability relating to the use of the suggested products and recommendations and shall under no circumstances whatsoever, be liable for any special, incidental or consequential damages which may arise from such use.