



**PRODUCT INFO  
& DATASHEET**

***SF SUPER FOLIAR\* water soluble crystalline  
NPK 13-5-35 + 3 MgO + CTE (chelated trace elements)  
(not colored)***

***High Performance Super Foliar high K formula (higher yield & quality)***

***IMO 5.1, UN 1486***

***- E.C. Fertiliser -***

Recipe 23780103 - 17/10/2023

**1/ PRODUCT SPECIFICATIONS**

<b>Typical chemical analysis</b>			
Total Nitrogen	N	%	13.0
Nitric Nitrogen	N-NO <sub>3</sub>	%	10.6
Ammoniacal Nitrogen	N-NH <sub>4</sub>	%	0.8
Ureic Nitrogen	N-NH <sub>2</sub>	%	1.6
Phosphorus pentoxide, water soluble	P <sub>2</sub> O <sub>5</sub>	%	5.1
Phosphorus pentoxide, soluble in neutral ammonium citrate and in water	P <sub>2</sub> O <sub>5</sub>	%	5.1
Potassium oxide, water soluble	K <sub>2</sub> O	%	35.6
Magnesium oxide, water soluble	MgO	%	3.0
Sulphur trioxide, water soluble	SO <sub>3</sub>	%	6.3
<b>Chelated trace elements</b>			
Total Boron, soluble	B	%	0.020
Total Copper	Cu	%	0.004
Copper chelated by EDTA	Cu EDTA	%	0.004
Total Iron	Fe	%	0.102
Iron chelated by EDTA	Fe EDTA	%	0.102
Total Manganese	Mn	%	0.039
Manganese chelated by EDTA	Mn EDTA	%	0.039
Total Molybdenum	Mo	%	0.001
Total Zinc	Zn	%	0.059
<b>Other parameters</b>			
Low in chloride			
EC 1 g/L (0.1 %)		mS/cm	1.2
pH (1 %)		pH	3.3 +/- 0.3
Water soluble fertiliser			
Appearance			(no color) crystalline
pH range in which a good stability of the chelated fraction is guaranteed:			
Fe-EDTA pH		pH	1.5 - 6.5
Cu-EDTA, Mn-EDTA		pH	3.5 - 10.0

**2/ GENERAL RECOMMENDATIONS FOR USE**

SF NPK's are fully water soluble fertilisers and hence suitable for fertirrigation and foliar applications.

**As foliar fertiliser:** use 2-6 kg/ha in 200-1000 litres of water. Apply when deficiency symptoms occur and repeat 2 - 3 times.

**In fertigation:** use 2 gr/l in irrigation water. Apply shortly before stage of strong growth and repeat the application.

The above recommendations should be adapted depending on differences in climate, soil temperature, application and irrigation system. Furthermore: the number of applications, the quantity per ha as well as the interval times may vary regarding the culture types and the formulations. Please consult your local dealer or a qualified agronomist.

**3/ HOW TO APPLY ?**

- Add SF NPK's gradually to the water filled mixing tank, while stirring the solution.
- Solubility is affected by water temperature, which we recommend to be at 20 °C.
- In case of mixing different products with SF NPK's, always add first SF NPK's and other products afterwards.

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy itself of the suitability for its own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.

**SAP INTERNATIONAL CORPORATION by Krekelenberg 83, B-2980 Zoersel, Belgium**  
Tel. +32-3-309.06.51 Email : info@sico.be Website : www.sico.be



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- Do not mix with products based on calcium.
- When mixing with pesticides for the first time, test on a small scale before general use.
- For foliar feedings: apply during the coolest time of a hot day (in the evening) and the warmest time of a cool day ideally not in temperatures above 27 °C.
- Stir well before application
- Use not less than 400 litres of spray liquid per ha.
- In general, avoid application during flowering.
- The use of wetting agents may improve effectiveness (please consult us). It is important to know the pH of the irrigation water.

#### **4/ STORAGE CONDITIONS**

- Store dry & cool, away from direct sunlight, in well-ventilated warehouse & area.
- Highly soluble products are very hygroscopic: protect the products from humidity during handling & storage.
- Keep bags well closed, away from children.

#### **5/ TOLERANCES AND DEVIATIONS ALLOWED AS PER EU REGULATIONS.**

Methods of sampling and of analysis and analysis tolerances & deviations allowed as per E.C. regulations.

The E.C. methods of sampling & analysis, allowed tolerances & regulations etc. can be found on

internet [http://ec.europa.eu/enterprise/chemicals/legislation/fertilizers/index\\_en.htm](http://ec.europa.eu/enterprise/chemicals/legislation/fertilizers/index_en.htm). Also tolerances on analysis are as per regulation (EC) nr. 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilisers.

*Before using this product, please read the product specifications, the material safety datasheet and any other applicable product literature. The conditions of your use and application of our products, technical assistance and information (whether verbal, written, or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended use and applications. Such application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoints. It is also not recommended that the product be used for any described purpose without verification by the user of compliance with all applicable laws, regulations and registration requirements. No warranty is made as to the accuracy of any data or statements contained herein other than the chemical specifications guaranteed in this Product Datasheet. While this product is furnished in good faith, this product is provided to you without any representation or warranty, expressed or implied, as to condition, utility, merchantability, completeness, suitability or fitness for any particular purpose or use or any other matter or thing whatsoever and without recourse against Sap Int. Corp. and in any event. Without limiting the generality of the foregoing. SAP Int. Corp. specifically disclaims any responsibility or liability to the use of this product and shall not in any event, be liable for any special, incidental or consequential damages arising from such use. See also our general conditions of sale on our website [www.sico.be](http://www.sico.be)*

#### **SF SUPER FOLIAR water soluble crystalline NPK's : a range of foliar spray solutions for flexible use to cover the complete growth cycle of crops, grown in open field and in protection cultivation**

##### **Application guidelines**

- ➔ Select the SF NPK formula and dosage according to the crop's phenological stage, nutritional status and agronomic conditions.
- ➔ Make a jar test to check the compatibility of the tank solution.
- ➔ Test foliar spray on a small plot for possible signs of crop damage.
- ➔ Do not apply in full sun conditions. Recommended spraying time is early morning or late afternoon.
- ➔ Nutrient uptake is enhanced when the pH of the spray tank solution is slightly acidic (pH 4-5).
- ➔ pH levels of the final tank mix solution below 4 may provoke scorching. Check the final tank mix pH before application.

##### **Make a jar test to check the compatibility of the tank mix solution by adding in the right order**

1. Plant nutrient such as SF NPK.
2. Pesticides
3. Adjuvants such as oil based additives.

\* These products are available under our **SICOGREEN / DAVYSOL / PRIMOSOL / LOUSOL / PROFISOL / MAESOL** brands and bag designs.

**Our SICOGREEN and LOUSOL brands also exist in 10 kg bags, on pallets of 1000 kg , 20 MT / 20 ft**

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