



**PRODUCT INFO
& DATASHEET**

SICO-SRN 28

*Slow Release Methylene Urea Nitrogen fertiliser solution,
straight fluid fertiliser, 28% total N (w/w) = 35% total N (w/v)
Made in E.U. / Belgium*

updated 10/2019

1. PRODUCT DESCRIPTION

SICO-SRN 28 is a special high-tech methylene urea nitrogen solution which has an oily resinous quality.

It is a true slow release liquid nitrogen (SRN), to provide a highly predictable nitrogen release and excellent foliar nitrogen uptake into leaves and roots, ideal for any type of spray equipment, fertigation system, or drip irrigation.

By greatly reducing leaching and volatilization, SICO-SRN 28 protects the environment and reduces N loss, so you get more of the nitrogen you pay for.

SICO-SRN 28 is a liquid Nitrogen fertiliser solution containing about 60 % of N under liquid polymethylene-urea chains. SICO-SRN 28 increases crop safety, nitrogen absorption, translocation and remobilization when used on agricultural crops including vegetables, fruits, nuts and field crops.

2. PRODUCT SPECIFICATIONS & CERTIFICATE OF ANALYSIS

* CERTIFICATE OF ANALYSIS (w/w)

	Unit	Label Value	Min. Value	EC 2003/2003
Total Nitrogen	% w/w	28.0	27.6	Method n° 2.3
Ureic Nitrogen	% w/w	11.5	9.5	Method n° 2.6
Urea Formaldehyde Nitrogen	% w/w	16.5	14.5	Tot N – Ureic N

* ASPECT

From clear & limpid to slightly turbid. Product can be colored green at extra price.

* TYPICAL DISTRIBUTION OF NITROGEN FORMS, % OF TOTAL N

Slow-Release Nitrogen,

Derived from polymethylene urea compounds.....59 %

Urea Nitrogen41 %

* NITROGEN EQUIVALENTS

1 litre of SICO-SRN 28 = 1,25 kg = 350 gr of Nitrogen

1 kg of SICO-SRN 28 = 0.8 lt =280 gr of Nitrogen

1 kg of N = 3.57 kg SICO-SRN 28 = 2.85 lt of SICO-SRN 28

* OTHER INDICATIVE PROPERTIES

Specific Gravity, 60°/60° F1.24 – 1.26 %

pH9.5 – 10.5 %

Viscosity at 20°C (mPa.s)10 - 40

Electroconductibility solution at 1 ‰ at 20 °C (mS/cm)0.005 – 0.01

3. GENERAL APPLICATION DIRECTIONS

- SICO-SRN 28 contains 350 Gr. of nitrogen per litre.

- SICO-SRN 28 may be soil applied as a band, side dress or injected through the irrigation system, sprinkler, drip or center pivot.

- SICO-SRN 28 may be applied as a foliar spray application on all field crops to enhance growth and quality and to correct nitrogen deficiencies.

- SICO-SRN 28 may be applied as a concentrate or dilute solution by ground or aerial application. Apply with sufficient water to achieve adequate plant coverage, avoid application when temperatures are above 90°F and relative humidity is below 30%.

- SICO-SRN 28 gives the grower excellent crop safety (Salt Index is 1.5 - the lowest available for Nitrogen products) and helps promote uniform growth.

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- SICO-SRN 28 is well suited to the custom formulation of fertilizer blends and is compatible with many phosphorus, potassium and micronutrient sources as well as many crop protection chemicals.
- SICO-SRN 28 normal nitrogen release pattern is eight to twelve weeks. In the spring, fall and during periods of cool temperatures, it is recommended that low-biuret urea be blended with SICO-SRN 28 to enhance the release pattern.

*** COMPATIBILITY**

We recommend testing for compatibility in all spray combinations by a simple jar test with appropriate concentrations. Care should be taken not to blend SICO-SRN 28 with highly acidic / alkaline materials !

*** MIXING PROCEDURES WHEN TANK MIXING**

- Add 1/2 of total water spray tank
- Start circulating material in tank
- Add recommended amount of SICO-SRN 28 based NPK fertilizer blend.
- Add compatible micronutrients
- Add flowable materials
- Add emulsifiables
- Add any soluble powders and/or water soluble fertilizers. All should be pre-dispersed in water before adding to the spray tank solution.
- Complete filling of spray tank to desired volume and continue circulating prior to spray application
- Flush all spray and nurse tank equipment after usage.

KEEP OUT OF REACH OF CHILDREN • USE CAUTION WHEN HANDLING

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4. SUGGESTED APPLICATION RATES

A) Christmas Trees and Nursery stock

*** FOLIAR APPLICATION:**

Crop	Rate (lt/ha)	Time of application
Christmas Trees and Nursery stock	35-55	As needed or at 14 to 21 day intervals.

*** FERTIGATION:**

- Sprinkler Irrigation : Apply 20 to 40 litre per hectare per application every 10 to 14 days based on crop requirements.
- Drip Irrigation : Apply 20 to 40 litre per hectare per application 3 to 6 times during the growing season as needed.

B) Field Crops

*** FOLIAR APPLICATION:**

Crop	Rate (lt/ha)	Time of application
Alfalfa	35-70	Apply after each cutting when sufficient foliage is present.
Canola	35-70	Apply just prior to bolting.
Corn	35-55	When plants are 30-60 cm tall, then at tassel emergence and repeat after pollination.
→ Field		
→ Seed	35-55	Before detasseling and repeat after pollination.
Cotton	35-70	Early boll formation and repeat at 14 to 21 day intervals.
Flax	35-70	Early boll development.
Grain Sorghum	35-55	After pollination.
Grass Seed Production	35-90	Seed head elongation.

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Hops	35-55	Before cone development.
Peanuts	35-70	Early bloom and repeat at 14 to 21 day intervals until pods are filled.
Potatoes	35-90	Tuber initiation and repeat at 10 to 14 day intervals until maximum tuber development has occurred.
Rice	35-70	Panicle initiation. Repeat as required.
Small Grains		Tillering through flag leaf emergence.
Soybeans	35-70	Early pod formation and repeat in 14 to 21 days.
Sugar Beets	35-70	10 to 12 leaf stage and repeat at 20 leaf stage.
Sunflowers	35-70	When outer seeds start to fill, repeat in 10 to 14 days.
Tobacco	55-90	Plant bed stage to near maturity as needed to maintain crop growth and quality.
Other Crops	35-55	When sufficient foliage is present or at early fruit set. Try on a small area until more experience and trials have been completed to determine if higher rates are desirable.

*** FERTIGATION:**

- Center Pivot : Apply 30 to 50 litre per hectare per application as needed based on crop requirements.
- Drip Irrigation : Apply 30 to 50 litre per hectare per application 3 to 6 times during the growing season as needed.
- Sprinkler Irrigation : Beginning at the 3rd to 4th leaf stage, apply 30 to 50 litre per hectare per application every 10 to 14 days based on crop requirement.

C) Fruits & Nuts

*** FOLIAR APPLICATION:**

Crop	Rate (lt/ha)	Time of application
Almond, Filberts Pecans, Walnuts	35-90	At full leaf and repeat at early nut and expansion.
Apples	35-55	Begin at first full leaf and apply as needed during the growing season.
Blueberries	35-55	Early fruit set and repeat at early fruit color.
Caneberries	35-55	Prior to fruit set. ^[SEP]
Cherries, Peaches, Pears and Plums	35-55	Prior to fruit set
Citrus	35-90	Early bloom and repeat after fruit set. ^[SEP]
Winter Rate	35-90	Apply in mid-January and repeat as required.
Cranberries	35-55	Hook stage and repeat after fruit set.
Grapes:		
→ table	15-35	Prior to fruit set. ^[SEP]
→ raisin	15-35	When sufficient foliage is present. Repeat as needed.
→ wine	15-35	When sufficient foliage is present. Repeat as needed.
Olives	35-55	Early fruit development and repeat as needed.
Strawberries	35-55	Early flowering and repeat every 14 days through harvest.
Other crops	35-55	Initiate fall application when new growth reaches 8 cm in height. When sufficient foliage is present or at early fruit set. Try on a small area until more experience and trials have been completed to determine if higher rates are desirable.

SICO-SRN 28 may be applied in a concentrate spray (200 to 400 litre of water) or dilute spray (800 to 1.500 litre of water). Contact your local dealer on dilution rates less than 200 litre per hectare.

*** FERTIGATION:**

- Sprinkler Irrigation : Apply 20 to 50 litre per hectare per application every 10 to 14 days based on crop requirements.
- Drip Irrigation : Apply 20 to 50 litre / hectare per application 3 to 6 times during the growing season as needed.

D) Vegetables

*** FOLIAR APPLICATION:**

Crop	Rate (lt/ha)	Time of application
Asparagus	35-70	At mid-fern development and repeat at 14 to 21 day intervals.
Beans		At early flowering and (Green & Lima) repeat in 7 to 10 days.

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Broccoli, Brussel Sprouts,	35-55	Prior to head formation repeat in 10 to 14 days. When plants are 7-15 cm tall. Repeat at three week intervals or as required.
Cabbage & Cauliflower	35-70	
Carrots		When plants are 20-30 cm tall and repeat at 10 to 14 day intervals.
Celery	35-55	When plants are 30-60 cm tall, then at tassel emergence and repeat after pollination. Early flowering repeat at 10 to 14 day intervals.
Corn (sweet)	35-55 35-55	
Cucumbers		When sufficient foliage is present. Early flowering and repeat at 10 to 14 day intervals.
Melons, & Squash	35-70	
Kale		After thinning, then at early head formation and repeat at 10 to 14 day intervals.
Lentils	35-70	
Lettuce	35-55 35-55	At bud stage and repeat at 10 to 14 day intervals.
Okra		Mid-set development and repeat a 14 to 21 day intervals.
Onions & Garlic	35-55	Early flowering and repeat in 10 to 14 days.
Peas	35-70	Early fruit set and repeat at 10 to 14 day intervals.
Peppers	35-70	When sufficient foliage is present and repeat at 14 to 21 days.
Spinach	35-70	At full bloom and repeat at 10 to 14 day intervals.
Tomatoes (Process & Fresh)	35-70	When sufficient foliage is present or at early fruit set. Try on a small area until more experience and trials have been completed to determine if higher rates are desirable.
Other crops	35-70 35-55	

*** FERTIGATION:**

- Sprinkler Irrigation : Beginning at the 3rd to 4th leaf stage, apply 20 to 50 litre / hectare per application every 10 to 14 days based on crop requirements.
- Drip Irrigation : Apply 20 to 50 litre / hectare per application 3 to 6 times during the growing season as needed.

5. PACKING

In 1000 ltr IBC

- 1 IBC = 1000 ltr = 1250 kg
 - 16 IBC = 16,000 ltr = 20 MT per 20ft container
 - 20 IBC = 20,000 ltr = 25 MT per 40ft container
- Min. order = 1 x 20ft container.

6. SHELF LIFE

Stored in dry locations at moderate temperature, the product can be conserved without any alteration of their properties for at least one year. For an optimal conservation, the temperature should be kept in the range 5 - 25 °C.