

Sustainable Crop Nutrition



Revolutionizing agriculture with sustainable nanotechnology for higher yield and a greener future.

Boosts Crop Yield &
Nutrient Uptake

Eco-Friendly & Sustainable

Cutting-Edge Innovation

Future of Agriculture



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www.ecosapiient.com



Nano Urea (N:12%)

Nano-Urea is a highly efficient and effective Nitrogen fertilizer with a particle size less than 100nm, providing enhanced solubility and rapid plant uptake.

Composition : Nitrogen: min 12% | SG at 20 °C: 1.08

Compatability :

- ✓ Nano Urea can be mixed with bio stimulants, 100% water soluble fertilizers, and agrochemicals.
- ✓ It is always advised to go for jar test before mixing and spraying for compatibility.

Relevant Substance:

Nano Urea (CAS No: 57-13-6)

Concentration: min Nitrogen 12%

READ LABEL BEFORE USE. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

Shake well before use. Store at Room Temperature.
Keep container closed when not in use.
Keep out of direct sunlight.

Application Table

Fertigation:

Crop	Application date	Dosage L/ha
Fruit Trees (Pomefruit, Stonefruit, Grapes, Berries, Deciduous fruit, Subtropical fruit, Citrus)	3–4 months before flowering • Drip irrigation: 6,000 L water/ha • Flood irrigation: 8,000–10,000 L water/ha	2.5L
Ornamentals	10–15 days after planting • 10,000-15,000 L of water/ha (drip irrigation)	2.5L
Maize	15 days after planting the crops • Drip irrigation: 8,000–12,000 L water/ha • Flood irrigation: 15,000–20,000 L water/ha	2.5L
Cereals (e.g., wheat or barley):	15 days after planting the crops • Drip irrigation: 6,000–10,000 L water/ha • Flood irrigation: 10,000–15,000 L water/ha	2.5L
Potato	15 days after planting the crops • Drip irrigation: 10,000–15,000 L water/ha • Flood irrigation: 15,000–20,000 L water/ha	2.5L
Tomato, Cucurbits	5–7 days after transplanting • 10,000-15,000 L of water/ha (drip irrigation)	2.5L
Beetroot, Carrot, Legumes	10–15 days after germination • 10,000-15,000 L of water/ha (drip irrigation)	2.5L

Foliar Application

Crop	application date	Dosage rate L/ha
Fruit Trees – High Density (Citrus, Stonefruit, Pomefruit)	2 sprays: • Before flowering (pre-bloom) • After flowering (fruit set stage)	0.45L
Fruit Trees – Low Density (Berries, Grapes, Subtropical fruits)	2 sprays: • Before flowering (pre-bloom) • After flowering (fruit set stage)	0.45L
Ornamentals	2–3 sprays: • Early growth stage (15–30 days after germination/transplanting) • Flowering stage (40–50 days after germination/transplanting) • Optional: Fruit setting stage (50–70 days after germination/transplanting)	0.45L
Maize	2–3 sprays: • First spray: 6-leaf stage (about 25–30 days after germination) • Second spray: Pre-tasseling stage (about 40–50 days after germination) • Optional third spray: End of flowering (about 60–70 days after germination, if deficiency signs appear)	0.45L
Cereals (Wheat, Barley, etc.)	2–3 sprays: • First spray: End of tillering (about 20–30 days after germination) • Second spray: Booting stage (about 40–50 days after germination) • Optional third spray: Early heading (about 50–60 days after germination, if extra nutrients are needed)	0.45L

Foliar Application

Crop	Application date	Dosage rate L/ha
Potatoes	• First spray: Tuber initiation stage (about 20–30 days after germination) • Second spray: Early flowering (about 40–50 days after germination) • Optional third spray: Early bulking stage (about 50–60 days after germination, for increased tuber size/quality)	0.45L
Tomato, Cucurbits	5–7 days after transplanting with 10,000–15,000 L water/ha	0.45L
Beetroot, Carrot, Legumes	10–15 days after germination with 10,000–15,000 L water/ha	0.45L

Hazard Statements:

Harmful if swallowed.

Causes serious eye irritation.

Causes skin irritation.

May cause respiratory irritation.



Harmful

Precautionary Statements:

- Keep out of reach of children.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Use only outdoors or in a well-ventilated area.
- If medical advice is needed, have container or label at hand.

Prevention:

Response (In Case of Accidental Spillage or Exposure, Emergency Response, and First-Aid):

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- IF ON SKIN: Wash with plenty of soap and water.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- METHODS FOR CLEANING UP: Absorb with inert, damp, non-combustible material and dispose properly.

Storage:

- Store in a well-ventilated place. Keep container tightly closed.
- Store away from incompatible materials (acids, oxidizing agents).

Disposal:

- Dispose of contents/container in accordance with local/regional/national/international regulations.

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