

K-Sil



Reg. No. B5324 Act No. 36 of 1947

Reg. No. N-F 1815 Act No. 36 of 1947

FERTILIZER GROUP 2

K-Sil is a water-soluble liquid potassium silicate fertilizer containing potassium and silicon for foliar feeding, fertigation or as a soil drench.



DANGER

Potassium (K)	168 g/kg	247 g/ℓ
Silicon (Si)	104 g/kg	153 g/ℓ

SG (@20 °C) = 1,47

HAZARD STATEMENTS:

May be corrosive to metals.
Causes severe skin burns and eye damage.
Causes serious eye damage.
May cause respiratory irritation.
Suspected of damaging to fertility or the unborn child.

PRECAUTIONARY STATEMENTS:

Keep only in original packaging.
Do not breathe mists. Wash hands and affected area thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid release to the environment.

Rolfes 
Agri

Emergency contact details

Office Hour Poisoning Helpline
Rolfes Agri (Pty) Ltd.
Tel: +27 (12) 803 0145

Registration holder: Rolfes Agri (Pty) Ltd.
(Reg. No. 1998/013411/07) • 288 Mundt Street, Walthoo, 0184,
Gauteng, RSA. • Tel: (012) 803-0145

Spill Response and Transport incidents

Spill Tech, Oil and chemical pollution control
Tel: +27 (86) 100 0366 / +27 (83) 253 6618
www.spilltech.co.za

Shake well before use • Store at room temperature
Keep out of direct sunlight • Keep container closed when not in use



PRECAUTIONS:

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read carefully and follow all instructions.
- Obtain, read and follow all safety instructions before use.
- Keep only in original packaging.
- Do not breathe mists. Wash hands and affected area thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid breathing dust/fumes/gas/mist/vapours/spray.
- Wash hands and affected area thoroughly after handling. Do not touch eyes.
- Use only outdoors or in well-ventilated area.
- Wear eye protection and face protection.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
- IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Get emergency medical help immediately.
- If exposed or concerned, get medical advice.
- Specific treatment (see first aid on the SOS)
- Wash contaminated clothing before reuse.
- Absorb spillage to prevent material damage.
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Store in a corrosion resistant container with a resistant inner liner
- Empty all contents from the container by placing it upside down over the spray tank and holding it there for at least 30 seconds. Puncture the rinsed container to render it useless and send to a recycler.

RELEVANT SUBSTANCES:

Potassium hydroxide <10%, Salicylic acid <10% and Potassium silicate >60%.

WARNINGS:

- Do not store product in direct sunlight.
- Do not store at a temperature above 50°C for a prolonged period.
- At temperatures of 0° and below K-SIL may form a gel that is difficult to mix, but it will again liquefy as the product warms up.
- Do not leave the product in a spray tank overnight. The mixed product must be applied as soon as possible.
- Do not store in aluminium, fibre glass, copper, brass, zinc or galvanized containers.
- Separate from acids, reactive metals and ammonium salts.
- Can etch glass if not promptly removed.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED**COMPATIBILITY:**

- **K-SIL** is highly alkali (pH>11) and as such may cause compatibility problems.
- It is advisable to do a miscibility test prior to mixing **K-SIL** with other chemicals.
- It is not recommended to use K-SIL with herbicides.
- Silica salts are highly reactive. Avoid mixing with products containing salts of aluminium, calcium, magnesium, and zinc.

MIXING INSTRUCTIONS:

- Shake container well before use.
- Fill spray tank with half the required water volume and start agitator mechanism, then add the **K-SIL** and complete filling the spray tank.
- The mixed product must be applied as soon as possible.
- When used with other products that require a lower pH, use citric acid to lower to the required pH. Do not use a buffer.

APPLICATION:

- **K-SIL** is readily taken up by the plant and is formulated for use as both a foliar feed and as a soil drench.
- A soil drench is recommended with sufficient water to wash the product into the soil.

CROP	DOSAGE RATE	APPLICATION
Banana	1 – 2 ℓ / ha	Apply monthly
Coffee	5 ℓ / ha	Apply monthly. Start with root flush as a soil drench through irrigation system.
Cotton	0.5 – 1 ℓ / ha	First application between 2 – 3 weeks after emergence. Repeat at flowering with intervals of 14 days
Flowers (cuttings, cut, potted)	100 – 150 mL / 100 ℓ water	Apply weekly.
Grapes Table Grapes, Wine Grapes	1 – 2 ℓ / ha	Apply at the beginning of the vegetative stage. Repeat monthly.
Legumes Beans, Groundnuts, Peas, Soybeans	0.5 – 1 ℓ / ha	First application between 15 & 25 days after emergence. Repeat upon flowering.
Maize and Sorghum	0.5 – 1 ℓ / ha	First application at 4 th leaf stage, repeating at the 8 th leaf stage.
Nurseries & hydroponics	40 mL / 100 ℓ water	Apply weekly.
Pastures	2 – 3 ℓ / ha	Apply after flowering

CROP	DOSAGE RATE	APPLICATION
Strawberries	0.5 – 1 ℓ / ha	Apply every 7 – 10 days. First application 7 days after transplant.
Sugar cane	0.5 – 1,5 ℓ / ha	First application at 40 – 45 days, repeating 30 days later.
Sunflower	0.5 – 1 ℓ / ha	First application at 3 – 5 leaf stage
Tree Crops Avocado, Citrus, Figs, Nut trees, Olives, Mango, Pome fruit, Pomegranate, Stone Fruit	5 ℓ / ha	Apply monthly. Start with root flush as a soil drench through irrigation system..
Vegetables Cabbage, Carrots, Cucurbits, Lettuce, Onions, Peppers, Potatoes, Tomatoes	1 – 2 ℓ / ha	First application 7 days after emergence or transplant. Repeat every 2 – 4 weeks
Wheat	1 – 3 ℓ / ha	First application at 25 – 30 days after emergence. Repeat at flag leaf and awns stage.