

CARBology[®] PHOSCAL



Reg. No. B9657 Act No. 36 of 1947

Reg. No. N-F 2031 Act No. 36 of 1947

FERTILIZER GROUP 1

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

CARBOLGY[®] PHOSCAL is a liquid fertilizer that contains phosphorus, nitrogen and calcium for use as a foliar feed.



DANGER

Phosphorus (P)	101 g/kg	(132 g/ℓ)
Nitrogen (N)	29 g/kg	(38 g/ℓ)
Calcium (Ca)	32 g/kg	(42 g/ℓ)

SG (@20 °C) = 1,31 ± 0,02

HAZARD STATEMENTS:

Causes severe skin burns and eye damage.
May Cause respiratory irritation.
Toxic to aquatic life.

PRECAUTIONARY STATEMENTS:

Avoid breathing fumes/gas/mist/vapours/spray.
Read carefully and follow all instructions.

Registered and Manufactured by: Rolfes Agri (Pty) Ltd.
(Reg. No. 1998/013411/07) • 288 Mundt Street, Waltloo, 0184
Gauteng, RSA. • Tel: (012) 803-0145

Distributed by: INTELIGRO (Pty) Ltd.
3 Marchand Street, Wellington, 7655
Tel:+27 (21) 873 6177

Rolfes 
Agri

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

Emergency contact details

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

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



LIFT HERE

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.
- Avoid breathing fumes/gas/mist/vapours/spray.
- Wash hands and affected area thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF SWALLOWED: Rinse mouth. Do **NOT** induce vomiting.
- IF ON SKIN: Take off all contaminated clothing immediately. Immediately rinse with water for several minutes.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Get emergency medical help immediately.
- Specific treatment (see first aid treatment on this label).
- Wash contaminated clothing before reuse.
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- 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 HAZARDOUS SUBSTANCES:

Phosphoric acid 30 to 60%, Ammonia < 10%.

FIRST AID TREATMENT:

- **General Advice:** The symptoms resulting from direct exposure to the product could appear a while after exposure. If there is persistent discomfort, seek medical attention.
- **Eye contact:** Flush eyes immediately with large amounts of flowing cold water for 15-20 minutes, until no evidence of chemical remains. If irritation persists, get medical help.

- **Skin contact:** Remove all contaminated clothing and shoes immediately. Gently wipe off residual chemical and wash skin thoroughly with non-abrasive soap. If irritation or rash persists, get medical help.
- **Inhalation:** Remove the affected victim from exposure to an area with fresh air. If breathing has stopped, administer artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- **Ingestion:** If exposed or concerned, rinse mouth thoroughly with large amounts of water and get medical advice.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED.

- It is advisable to do a miscibility test before mixing with other chemicals.
- Do not apply **CARBOLOGY® PHOSCAL**:
 - In combination with copper containing fungicides, phosphates or phosphonates.
 - Within 30 days after application of any copper fungicides.
 - In combination with highly alkaline material such as lime sulphur, Bordeaux mixture or certain boron products.
- Ensure thorough agitation of the product during filling and spraying. Always use spray tank strainers when pouring product into spray tank. The spray tank must be flushed out with clean water at the end of the day.
- **CARBOLOGY® PHOSCAL** could lower the pH of the spray water. The use of a buffer is recommended when using in combination with other chemicals.
- Ensure good agitation throughout application.
- **CARBOLOGY® PHOSCAL** should preferably be applied in the early morning or late afternoon. Do not apply to plants that are undergoing a period of moisture or heat stress.

RECOMMENDATIONS:

- Do not exceed the maximum rate per hectare.
- Do not exceed a concentration of 2% (2 ℓ / 100 ℓ water) if mixed with other chemicals in a spray tank.

CROP	MAX RATE/HA PER APPLICATION	DOSAGE RATE	REMARKS
Bean Crops (Soybean, Groundnut and Green Beans)	5 ℓ	3 – 5 ℓ / ha	Apply before flowering at a water rate of 200 ℓ / ha.
Deciduous Fruit Pome and Stone Fruit	10 ℓ	250 – 400 mℓ / 100 ℓ water	Apply 3 – 5 times at 10 – 14 day intervals, commencing at petal fall. Based on a typical TRV of 2,500 ℓ /ha and a maximum TRV of 4,000 ℓ/ha. Apply sufficient water to provide good cover, but avoiding run-off. For fruit coloration: Apply QUATRO PHOSCAL at 10 ℓ/ha in 1,000 ℓ/ha water. One or two applications (7 days apart) should be made once the fruit has started to change colour, normally 2 – 3 weeks before harvest. Please note that it is important to use the recommended water volume
Grapes	10 ℓ	5 – 10 ℓ/ha	Apply 10 ℓ/ha at fruit set and repeated 2 – 3 times at 14 day intervals. Water rate: 500 – 1000 ℓ/ha.
Lucerne and pasture	2 ℓ	2 ℓ /ha	Apply after cutting or when crop is growing actively.
Ornamentals, Lawns, Turf	1 ℓ	250 mℓ / 100 ℓ water	Apply as soon as there is sufficient leaf area. Repeat at 10 – 14 day intervals as necessary. Spray a maximum of 3 applications per crop per annum.

CROP	MAX RATE/HA PER APPLICATION	DOSAGE RATE	REMARKS
Strawberry (Field Grown):	5 ℓ	3 – 5 ℓ/ha	Non-everbearing varieties: Apply 3 applications from start of flowering. Repeat applications at 7 – 10 day intervals.
	5 ℓ	3 – 5 ℓ/ha	Everbearing varieties. Do not apply successive applications at intervals of less than 14 days. Water rate: 300 – 500 ℓ / ha.
Row crops: Cereals (Canola, Barley, Oats, Wheat)	5 ℓ	3 – 5 ℓ/ha	Apply before flowering at a water rate of 200 ℓ/ha.
Cotton, Maize, Sunflower	5 ℓ	3 – 5 ℓ / ha	Apply at 4 – 8 leaf stage at a water rate of 200 ℓ / ha.
Tree Nuts (Macadamias, Pecans and other Nuts)	10 ℓ	250 mL / 100 ℓ water	Apply 3 – 5 times, at 10 – 14 day intervals, commencing at petal fall.
			Based on a typical TRV of 2500 ℓ / ha and a maximum TRV of 4000 ℓ / ha. Apply sufficient water to provide good cover but avoiding run-off.
Subtropical Fruit Avocados, Litchi, Mangoes, Citrus	10 ℓ	250 mL / 100 ℓ water	Apply at 10 – 14 day intervals throughout fruit development starting at fruit set.
			Application rates are based on a typical TRV* of 2500 ℓ / ha and a maximum TRV of 4000 ℓ / ha. Apply sufficient water to provide good cover but avoiding run-off.
Sugarcane	5 ℓ	3 – 5 ℓ / ha	Apply at 4 – 8 leaf stage at a water rate of 200 ℓ / ha.
Vegetables			
Cabbage crops, Carrots	5 ℓ	3 – 5 ℓ / ha	Apply 2 – 3 applications per season.
Cucurbits	5 ℓ	3 – 5 ℓ / ha	Apply before flowering at a water rate of 200 ℓ / ha.
Onions	5 ℓ	3 – 5 ℓ / ha	Apply 1 – 2 applications during bulb filling. Repeat at 10 – 14 day intervals. Water rate: 75 – 200 ℓ / ha.
Potatoes		3 – 5 ℓ / ha	Pivot Application: Apply four applications at tuber initiation. Repeat at 10 day intervals.
	15 ℓ	10 – 15 ℓ / ha	Apply at tuber initiation (when 50 % of the tip swelling are twice the diameter of the rest of the stolon).
	10 ℓ	5 – 10 ℓ / ha	A minimum of 2 applications of 5 – 10 ℓ / ha during tuber bulking (as soon as first formed tubers are 10 mm in diameter). Allow 10 – 14 days between applications. Water rate: 75 – 200 ℓ / ha.
Tomatoes	5 ℓ	3 – 5 ℓ / ha	Apply 2 – 4 applications at the 4 – 6 leaf flowering stage on second truss. Repeat at 10 – 14 day intervals. Water rate: 150 – 500 ℓ / ha.

For optimum results **CARBOLGY® PHOSCAL** should be used in a program and in combination with other balanced fertilizers and foliar feeds. Use lower rates as a maintenance spray and higher rates to correct deficiencies. Consult with your chemical distributor for crop specific programs or if any other information is required regarding the use of **CARBOLGY® PHOSCAL**.

*TRV – Tree Row Volume