CYCOCEL®

Plant Growth Regulator

FOR USE ON ORNAMENTALS GROWN IN GREENHOUSES, SHADEHOUSES, AND CONTAINER NURSERIES

Product Information Bulletin 301

GENERAL INFORMATION

Cycocel is a plant growth regulator for ornamentals, including bedding plants and herbaceous crops. **Cycocel** enhances the crop's aesthetic appeal and improves durability during post production shipping and handling. Treated crops are more compact with shorter internodes, stronger stems, and greener leaves.

Cycocel contains 11.8% chlormequat (2-chlorethyl) trimethylammonium chloride. (1.0 lbs per US gallon)

Common Name: Chlormequat

Class: Quaternary Ammonium

GROUP	1	PLANT GROWTH REGULATOR

Packaging: Quarts, gallons and 30 gallon plastic drums

RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = **12 hours** Signal Word = **CAUTION**

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks

ADVANTAGES OF CYCOCEL

- Forgiving PGR - easy to use by experienced and new growers on all labeled crops.
- Enhances crops aesthetic appeal and improves durability during shipping.
- Contains wetting agent.
- Synergistic with B-Nine®.
- Labeled for use on a wide range of crops.

MODE OF ACTION

Cycocel is a gibberellin inhibitor.

USE SITES

Poinsettias: **Cycocel** can be used to reduce stem elongation of all poinsettia varieties. It can be applied as needed to stock plants, cuttings during propagation, and before or after pinching plants grown for flowering. Spray applications range from 800 to 1500 ppm, and drench applications range from 3000 to 4000 ppm. Multiple applications may be made as needed at intervals between 3 and 14 days.

Geraniums: **Cycocel** controls plant size of seed and vegetatively propagated geraniums and induces early flowering of seed geraniums. Rates range from 800 to 1,500 ppm, and generally first applications are made after stems have started elongating.

Bedding Plants: **Cycocel** controls stem elongation of a wide variety of bedding plant crops grown in packs, pots, hanging baskets, and plug trays. Spray application rates range from 800 to 1,500 ppm, but may increased to 3,000 ppm after extensive trials.

Other Herbaceous Crops: **Cycocel** reduces stem elongation in other herbaceous crops such as flowering potted plants, tropical and temperate perennials, and foliage plants. The optimum **Cycocel** rate, timing of application and frequency will vary for different crops and amount of height control desired by individual users. See label for specific rate recommendations on herbaceous plants and perennials.

Hibiscus: **Cycocel** improves flowering and promotes more uniform shoot growth in hibiscus. Spray application rates range from 200 to 600 ppm depending on variety and amount of control desired. First application should be made when laterals are 0.5 to 1.0 inch long and 3 to 4 applications after last pinch may be required.

Azaleas: **Cycocel** produces earlier budded plants with multiple buds per shoot. Treated azaleas also have more compact, symmetrical heads.

Spray applications rates range from 1,000 to 2,000 ppm, but may range to 4,000 ppm in some cases.

Other Woody Flowering Crops: Other woody flowering crops can be treated with **Cycocel** to produce more compact growth and earlier flower bud initiation. Users should evaluate **Cycocel** in small-scale trials to determine how best to apply it under their individual situations.

APPLICATION and RATES

PREPARATION OF CYCOCEL SOLUTIONS

For Spray and Drench Applications

Concentration (ppm)*	CYCOCEL (fl.oz. / gal)	CYCOCEL (mL / gal)	CYCOCEL (mL / l)
200	0.217	6.42	1.69
460	0.500	14.7	3.90
800	0.868	25.7	6.78
1,000	1.08	32.1	8.47
1,250	1.36	40.1	10.6
1,500	1.63	48.1	12.7
2,000	2.17	64.2	16.9
3,000	3.25	94.2	25.4

*ppm calculations based on total **CYCOCEL** product

Determining Optimal Cycocel Usage:

The optimum usage of **Cycocel** varies depending on the crop, the individual user's production situation and the desired final plant height and appearance. Users should determine the optimum **Cycocel** rate, timing, and frequency under their individual production situations.

Users should obtain experience in small-scale trials under the different conditions where **Cycocel** is to be used. The **Cycocel** rates recommended are general guidelines to be used by growers in trials to determine specific, optimum usage appropriate for their operation.

Cycocel/B-Nine Tank Mix:

A tank mix combination of B-Nine plus **Cycocel** has been shown to provide optimum retardation and reduce marginal chlorosis. The tank mix may be targeted to those plants less responsive to **Cycocel** used alone. The tank mix of **Cycocel** and B-Nine is more active than using either product alone.

CYCOCEL AND B-NINE TANK MIX SPRAY RATES

Activity	CYCOCEL (ppm)	B-Nine (ppm)
Very High	1,500	5,000
High	1,200	2,500
Medium	1,000	1,250
Low	600	800

NOTE: For spray applications on shadehouse and container nursery production, apply **Cycocel** at a rate of 1 gal. of spray per 200 sq. ft. of growing area, regardless of plant spacing. For spray applications in shadehouses and container nursery production, do not exceed the maximum recommended application rate of 3.7 lbs. ai/A for a single application and not more than 33.3 lbs./A/Year. See label for complete instructions.

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