

ALTERCEL™

Plant Growth Regulator Solution

SPECIMEN LABEL

FOR USE ON ORNAMENTALS

Active Ingredient:

Chlormequat Chloride* 11.8%

Other Ingredients: 88.2%

Total: 100.0%

*1 gallon contains 1 pound (2-chloroethyl) trimethylammonium chloride

EPA Reg. No.: 62097-21-59807

EPA Est. No. indicated by first letter
of batch number on this package
(E) 39578-TX-001 (C) 70815-GA-001

KEEP OUT OF REACH OF CHILDREN

CAUTION

See product label for First Aid, Precautionary,
Storage and Disposal Statements, and Directions for Use.

FIRST AID	
IF SWALLOWED	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to do so by a poison control center or doctor. • DO NOT give anything by mouth to an unconscious person.
NOTE TO PHYSICIAN The use of Atropine is contraindicated. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM Pacific Standard Time. In the event of a medical emergency, call your poison control center at 1-800-222-1222.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. All mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- Shoes plus socks; and
- Chemical-resistant gloves made out of: barrier laminate, butyl rubber $\geq$ 14 mils, nitrile rubber $\geq$ 14 mils, or neoprene rubber.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them.

Net Contents: 1 Gallon (3.78 L)



USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

- This product is toxic to wildlife.
- **DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.
- **DO NOT** contaminate water when disposing of equipment washwater or rinsate.
- Keep out of lakes, streams and ponds. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas spray.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labelling.

USE RESTRICTIONS

- **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply this product with motorized ground boom equipment in outdoor sites.
- For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Apply using handheld nozzles or handheld equipment, such as low-pressure hand wand equipment. Observe all Precautionary Statements, Limitations, and Application instructions on the **ALTERCEL** plant growth regulator package label

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labelling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours unless wearing appropriate PPE. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over long-sleeved shirt;
- Shoes plus socks; and
- Chemical-resistant gloves made out of: barrier laminate, butyl rubber $\geq$ 14 mils, nitrile rubber $\geq$ 14 mils, or neoprene rubber.

PHYSICAL OR CHEMICAL HAZARDS

FOR CHEMICAL EMERGENCY: spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

PRODUCT INFORMATION

Read all sections of this label before using **ALTERCEL** plant growth regulator.

ALTERCEL is an effective growth retardant for use on a broad variety of ornamental crops grown in containers in commercial or research greenhouses. **ALTERCEL** reduces plant height by limiting internode elongation through inhibition of gibberellin biosynthesis. Application produces more desirable, compact, and marketable plants. These desirable qualities include darker foliage, higher chlorophyll content, greater leaf thickness and stronger stems.

DO NOT use **ALTERCEL** as a replacement for good cultural practices. Only use **ALTERCEL** on healthy plants that are grown under proper conditions. Wetting agents are not required with **ALTERCEL**. If any adjuvant or other chemicals are applied with **ALTERCEL**, treat a small number of plants first to insure that no crop injury will occur. Plants treated with **ALTERCEL** may require less water and irrigation schedules may therefore need to be adjusted to prevent over-irrigation.

GROWTH REGULATION WITH ALTERCEL:

Depending on crop culture, environmental conditions and plant growth habits, **ALTERCEL** will normally retard growth for a period of 1 to 3 weeks following spray treatment. Repeat applications may be necessary. **ALTERCEL** has the greatest effect on final plant height when applied at the beginning of rapid stem elongation. **ALTERCEL** will have less effect if applied when shoots are not elongating or at the end of an elongation phase. Prior to treating a large number of plants, conduct trials to determine optimum rates, application timing and frequency for individual situations.

SPRAY APPLICATIONS:

As a foliar applied spray, **ALTERCEL** is absorbed into the plant through young expanding leaves, mature leaves and stems. **ALTERCEL** is most effective when applied at a spray volume that thoroughly covers the plant foliage and stems. Optimum spray volume will vary with the plant size, but generally is between 2 and 3 quarts of spray solution per 100 square feet of bench space. Excessive runoff of solution as a result of heavy spray volumes is disadvantageous. **ALTERCEL** applied at a volume of about 1 quart per 100 square feet is considered a light spray. The use of a light spray is advantageous since it will retard the growth of the accessible shoots (upper lateral shoots) and will have little effect on the lower shoots since they receive less spray.

Maximum effect is achieved with **ALTERCEL** when spray applications are applied under conditions that support slow drying, thus allowing better penetration into the plant. To maximize the absorption of the spray solution, time **ALTERCEL** applications such that overhead irrigation or rain will not occur for at least six hours.

Depending on the crop and individual user's desired results, **ALTERCEL** application rates range from 600 to 2,000 ppm. Use this range of rates unless specifically stated within the section for that particular crop. The recommended initial **ALTERCEL** rate for small-scale trials is 1,250 ppm. All references to ppm are based on total **ALTERCEL** product.

ALTERCEL PHYTOTOXICITY:

Foliar spray applications of **ALTERCEL** may result in yellowing around leaf margins or at the tip of leaves. Discoloration is small and rapidly enlarging at time of application and appears about 3 to 5 days after the spray treatment. Leaves that are either mature at the time of spray or formed after application are not affected by foliar spray applications of **ALTERCEL**. Discolored areas usually regain most or all green color by the end of the crop cycle. The severity of discoloration is related to the application rate of **ALTERCEL**. Lower rates **DO NOT** generally cause any phytotoxicity or temporary discoloration. Before application rates of 1,500 ppm or greater are used, conduct trials to insure that the amount of leaf spotting is acceptable to the user. **ALTERCEL** application rates that are too high may cause brown areas on leaf margins. These necrotic areas may not recover if the degree of injury is too severe. If trial rates demonstrate unacceptable injury, lower **ALTERCEL** rates to reduce phytotoxicity and use more frequent applications at lower application rates to achieve the desired level of height control.

DO NOT apply **ALTERCEL** near the end of a crop cycle, except when the user has conducted adequate trials to insure the **ALTERCEL** rate is low enough to avoid an undesirable appearance during the sales period.

DRENCH APPLICATIONS:

When applied as a drench treatment to growth medium **ALTERCEL** is absorbed by the roots and transported to the stem tips where it is effective. Unlike foliar spray applications, drench applications **DO NOT** cause leaf yellowing and provide extended and consistent control of stem elongation. When applying **ALTERCEL** by drench treatment, the total amount of active ingredient applied to each container determines the amount of reduction in stem elongation. Therefore, users must insure that both the amount of solution applied to each container and the concentration of **ALTERCEL** are correct.

When treating multiple plants in a container, ensure potting medium is uniformly wet prior to drench applications of **ALTERCEL**, otherwise non-uniform plant heights may result. Apply the **ALTERCEL** drench treatment to a moist medium before crops need irrigation. A good procedure is to irrigate crops one day prior to a drench treatment with **ALTERCEL**. Application rates for drench treatments of **ALTERCEL** range from 2,000 to 3,000 ppm. Conduct trials to determine the optimum rates under particular conditions. The following table gives suggested volumes of dilute **ALTERCEL** solution to be applied to different sized containers. The volumes applied can be altered if the user has established the effect of different volumes through their own small-scaled trials.

Pot diameter (inches)	Fluid ounces of dilute solution per pot	Number of pots treated with 1 gal. of solution
2 1/4 to 3	2	64.0
4	3	42.5
5	4	32.0
6	6	21.5
8	8	16.0

FACTORS AFFECTING ACTIVITY OF ALTERCEL

Factors such as environmental conditions, cultural practices, and variety differences affect plant response to **ALTERCEL**. These factors also affect the optimum **ALTERCEL** rate and frequency of application.

ENVIRONMENTAL CONDITIONS:

Crops grown under low light levels and/or high humidity will have a greater growth habit and will generally require higher rates of **ALTERCEL** than the same crop produced at higher light levels and/or low humidity. Likewise, crops produced at higher temperatures or higher DIF (difference between day and night temperatures) will generally have greater stem elongation and thus require increased rates of **ALTERCEL** to produce the desired final plant height.

CULTURAL FACTORS:

Crops grown with high levels of irrigation and/or high fertilization rates and primarily using ammonia for a source of nitrogen, will be taller and more vigorous than crops grown with less irrigation, lower fertilizer rates, and predominately nitrate-nitrogen. The more lush crops normally require higher amounts and/or more frequent applications of **ALTERCEL**.

Plants that are spaced closely together tend to elongate rapidly when leaves begin to overlap. Under these conditions, more **ALTERCEL** is needed to produce plants with desired final heights.

The production schedule for photoperiodic crops and varieties such as poinsettias and chrysanthemums will influence final plant size. Crops that are grown under production schedules with more time between planting and start of flower initiation or between final pinch and flower initiation will generally be taller than crops using shorter production schedules. Therefore, the amount of **ALTERCEL** needed to achieve the desired final plant height will vary with the type of production schedule.

VARIETIAL DIFFERENCES:

The growth habits and amount of **ALTERCEL** required for optimum final height will vary among varieties within a species. Color sensitivity will also vary within a bedding plant series treated with **ALTERCEL**. In general, more vigorous, taller varieties demand greater amounts and/or additional/extra/supplementary applications than do the less vigorous, shorter varieties. Growth characteristics for varieties with which the user is unfamiliar can be obtained from their plant suppliers and breeders.

DETERMINING OPTIMUM ALTERCEL USAGE

The most effective use of **ALTERCEL** will vary depending on a number of factors including the type of crop, the individual user's production situation and the desired final plant height and appearance. Prior to treating an entire crop, conduct small-scale trials under varying conditions where **ALTERCEL** is to be used. The **ALTERCEL** rates recommended in this label are general guidelines to be used by growers in trials to determine the optimum **ALTERCEL** rate, timing, and frequency of application under their individual production situations.

PREPARATION OF ALTERCEL SOLUTIONS

For Spray and Drench Applications

CONCENTRATION (ppm)*	ALTERCEL (fl. oz./gal. water)	ALTERCEL (ml/gal. water)	ALTERCEL (ml/L water)
200	0.22	6.4	1.7
460	0.50	14.7	3.9
800	0.87	25.7	6.8
1,000	1.08	32.1	8.4
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
4,000	4.34	128.0	33.9

*ppm calculations based on total **ALTERCEL** product.

POINSETTIAS

Apply **ALTERCEL** as needed to stock plants, cuttings during propagation, and before or after pinching plants grown for flowering to reduce stem elongation of all poinsettia varieties.

Response of poinsettias to **ALTERCEL** varies with variety and geographical region of the United States. Use higher rates and more frequent applications in warmer production areas (i.e., sunbelt states) and on more vigorous varieties. For natural-season crops in the northern production areas, **DO NOT** apply **ALTERCEL** at full rates after October 15. Reduced rates, however, can be used until October 21 if conditions are warm and sunny. **DO NOT** use **ALTERCEL** in southern production areas after November 1. Later applications of **ALTERCEL** will delay flowering and reduce bract size. If the crop is being produced for other than natural season, make the last application no later than 6 weeks prior to flower maturity.

Apply spray applications of **ALTERCEL** at rates between 800 and 1,500 ppm. A maximum of 4 applications per growing cycle may be made at intervals between 5 and 14 days. Multiple applications may be used as needed between 5 and 14-day spray intervals. Reapplication may be necessary if lower application rates are used. At rates of 1,000 to 1,500 ppm, less frequent applications are needed. Higher rates may result in considerable leaf yellowing and are not frequently used. Higher rates of **ALTERCEL** may be applied if they have been adequately evaluated by the user.

Drench applications can be made to poinsettias using the procedures given in the **DRENCH APPLICATIONS** section of this label. Drench application rates are 2,000 to 3,000 ppm. **DO NOT** make drench treatments after the critical cut-off dates given above for **ALTERCEL** applications to poinsettias. A maximum of 2 applications per growing cycle may be made at intervals between 5 to 14 days.

GERANIUMS

Apply **ALTERCEL** spray applications at rates between 800 to 1,500 ppm to control plant size of seed geraniums and vegetative geranium types. **ALTERCEL** is also recommended for inducing early flowering of seed geraniums.

Make first applications of **ALTERCEL** 2 to 4 weeks after planting plugs or rooted cuttings, after stems have started elongating. A maximum of 3 applications can be made as needed.

To encourage earlier flowering of seed geraniums make two spray applications at 35 to 42 days after seeding at a rate of 1,500 ppm. Decreased

days to flowering, compact growth, and an increase in lateral breaks will be evident in treated plants. **DO NOT** exceed 3 applications of **ALTERCEL** during any crop production cycle.

BEDDING PLANTS

ALTERCEL will control the stem elongation of a wide variety of bedding plant crops grown in packs, pots, hanging baskets, and plug trays. Use of **ALTERCEL** on bedding plants is limited to 3 growing cycles per year. The growth rate of bedding plant crops varies greatly depending on growers' cultural practices. The use of **ALTERCEL** must be altered depending on environmental conditions, grower practices, and desired final plant size. Plant growth after transplanting is affected by the amount of growth regulator applied to the plant during the plug stage. The use of **ALTERCEL** during the plug stage will reduce the amount needed after transplanting.

Apply **ALTERCEL** spray applications at rates from 800 to 1,500 ppm. **DO NOT** apply **ALTERCEL** sprays until after transplanted plugs begin to grow and the degree of required growth control can be determined. For bedding plants in seedling stage, begin by evaluating **ALTERCEL** at one-half the rate used on finished bedding plants. **DO NOT** exceed 6 applications of **ALTERCEL** during crop production cycle.

ALTERCEL can be used to reduce stem elongation on these and other bedding plant types:

Ageratum	Dianthus	Nasturtium
Celosia	Jerusalem cherry	Salvia
Dahlia	Marigold	

OTHER HERBACEOUS CROPS

ALTERCEL can be used to reduce growth in other herbaceous crops not specifically listed in the label, including flowering potted plants, tropical and temperate perennials, and foliage plants. **ALTERCEL** can be applied to these crops either as a foliar spray or drench to the growing medium. The optimum rate, timing, and frequency of **ALTERCEL** application will vary for different crops and the desired level of growth control. Application rates of 200 to 1,500 ppm can be made, not to exceed 3 applications. Conduct trials with a small number of plants before **ALTERCEL** is used on entire crop.

ALTERCEL can be used to reduce the growth of these and other herbaceous crops:

Achimenes	Columbine	Pilea spp.
Aster	Easter Lily	Pentas
Astilbe	Gynura aurantiaca	Salvia spp.
Begonia, hiemalis	Ivy	Schefflera
Begonia, tuberous	Kalanchoe	Sedum spp.
Calceolaria	Lilium spp.	Sunflower
Carnation	Morning glory	
Chrysanthemum	Pachystachys	

HIBISCUS

ALTERCEL can be used on *Hibiscus* spp. to improve flowering and to produce compact plants with uniform shoot growth. Apply spray application rates between 200 and 600 ppm depending on variety, growth habit, and desired level of growth control. Conduct trials using a 460 ppm rate on a small number of plants before treating entire crop. **ALTERCEL** can be applied once before the first and second pinches to produce more compact plants before the final pinch. To maximize the production of compact flowering plants (height less than 18" in 6-inch pot), **DO NOT** exceed 2 applications of **ALTERCEL** in a crop production cycle. Make first applications when laterals are 0.5 to 1 inch long. A maximum of 3 growing cycles are permitted per year.

AZALEAS

ALTERCEL can be used on azaleas to produce earlier budded plants with multiple buds per shoot. Treated plants also have compact, symmetrical heads. For crops produced out of season in a year-round production system, **ALTERCEL** can be used to induce flower bud set.

Optimum **ALTERCEL** spray rates generally range between 1,000 and 2,000 ppm in most situations. Azalea growth habit and response to **ALTERCEL** varies with variety, geographical region, and production system. Two to three applications starting when laterals are about 2 inches long (3 to 5 weeks after pinch) may be required. Treated plants may flower a few days later than plants not treated with **ALTERCEL**.

OTHER FLOWERING WOODY CROPS

Other woody flowering crops can be treated with **ALTERCEL** to produce more compact growth and earlier flower bud initiation. Plants can be treated prior to pinching or after the last pinch, as needed. Optimum application rates, timing, and frequency will be different for different crops using rate range of 200 - 2,000 ppm not to exceed 3 applications in a production cycle. Evaluate **ALTERCEL** in small-scale trials to determine how best to apply it under their individual situations. A maximum of 3 growing cycles are permitted per year. **DO NOT** exceed 3 applications of **ALTERCEL** during a crop production cycle.

Examples of flowering woody crops that can be treated with ALTERCEL:

Barleria cristata	Fuchsia	Potted rose
Bougainvillea	Hollies	Pseuderanthemum
Camellia	Hydrangea	lactifolia
Gardenia	Lantana	Rhododendron

ALTERCEL AND END USE PRODUCTS CONTAINING DAMINOZIDE TANK MIX

Applications of this tank mix can provide a synergistic effect on certain crops that are not very sensitive to **ALTERCEL** alone or when an excessive number of applications are required. **Note: the tank mix combination of ALTERCEL and end use products containing daminozide is more effective than using either chemical alone.** Follow the tank mix guidelines given on the labels of both products. The tank mix is to be applied only as a foliar spray. Optimum rates of each product will vary depending on the type of crop, the user's desired level of height control, and the individual production situation as described for using **ALTERCEL** alone. Users must test the tank mix on a small scale before general use.

APPLICATION RATES

The application rates for **ALTERCEL** and end use products containing daminozide can be adjusted to achieve the desired level of height control. In general, use the highest **ALTERCEL** rate that does not cause excessive leaf yellowing. The end use products containing daminozide rate can then be raised or lowered to adjust the activity of the tank mix application.

The following table gives a range of application rates for **ALTERCEL** and end use products containing daminozide to use in establishing trials.

ALTERCEL and end use products containing daminozide tank mix spray rates:

Activity	ALTERCEL (ppm)	END USE PRODUCTS CONTAINING DAMINOZIDE (ppm)
Very High	1,500	5,000
High	1,500	2,500
Medium	1,250	1,250
Low	1,000	800

CONSIDERATIONS IN USING THE TANK MIX

1. Bedding Plants and General Crops

The **ALTERCEL** and end use products containing daminozide tank mix is active on a wide range of crops. Users must evaluate its use under their individual production situations. The tank mix can be used on bedding plant plugs such as pansy and vinca with low risk of excessive reduction in size. The tank mix can also be used at higher rates on plug crops that require stronger chemical activity, such as salvia, marigold, and dahlia, to produce desired height control.

2. Geraniums

The addition of end use products containing daminozide to **ALTERCEL** does not greatly enhance the height control achieved on geraniums.

3. Poinsettias

Poinsettias are more sensitive to the tank mix combination of **ALTERCEL** and end use products containing daminozide than are other crops. **Rates that are too high or applied late in the crop cycle may cause a reduction in bract size and/or delay bract coloring. DO NOT use high rates of ALTERCEL (1,500 ppm) and end use products containing daminozide (5,000 ppm) on poinsettias.** High **ALTERCEL** rates of 1,500 ppm plus end use products containing daminozide at 2,500 ppm can be used on stock plants during the summer or on crops produced in warm regions for flowering. Outside of the warmest regions, use the medium or low activity rates on crops for flowering. In all growing regions, apply **ALTERCEL** plus end use products containing daminozide to cutting propagation at the low or medium rates. **DO NOT apply the ALTERCEL and end use products containing daminozide tank mix to natural-season poinsettias after September 25th or after the start of short-days in photoperiod-controlled crops. After September 25th, use ALTERCEL alone, as described in the DETERMINING OPTIMUM ALTERCEL USAGE - POINSETTIAS section of this label.**

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

Pesticide Storage: Keep containers tightly closed when not in use. Store in cool, dry place. Protect from temperatures below 32° F. This product may freeze. If freezing should occur, thaw and shake gently to mix the product. **DO NOT** store diluted product. Store in original container. **DO NOT** store below freezing temperatures.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Nonrefillable container. **DO NOT** reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, if available, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

WARRANTY DISCLAIMER AND LIMITATION OF LIABILITY

OHP, Inc. warrants that this Product conforms to the specifications on this label. To the extent consistent with applicable law, OHP, Inc. makes no other warranties and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for a particular purpose. No agent of OHP, Inc. or any other person is authorized to make any representation or warranty beyond those contained herein.

It is impossible to eliminate all risks associated with this Product. Plant injury, lack of performance, or other unintended consequences may result because of factors such as abnormal weather conditions, use of the Product other than in strict accordance with this label's instructions, presence of other materials, the manner of application or other factors, all of which are beyond the control of OHP, Inc. or the seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

To the extent consistent with applicable law: 1) OHP, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the handling or use of this Product and 2) OHP, Inc.'s liability under this label shall be limited to the amount of the purchase price or, at the election of OHP, Inc., the free replacement of the Product.

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OHP INC

5151 MCCRIMMON PKWY STE 275

MORRISVILLE NC 27560-5425

(800) 356-4647

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