

# ConShape™ SL

PLANT GROWTH REGULATOR

**SOLUBLE LIQUID**

**FOR USE ON CHRISTMAS TREES**

Active Ingredient

S-Abscisic Acid .....	10.0% w/w
Other Ingredients .....	90.0% w/w
Total .....	100.0% w/w

ConShape™ SL contains 10 g of S-Abscisic Acid per 100 ml of product. ConShape SL contains the active ingredient S-Abscisic acid, commonly known as S-ABA. S-ABA is a naturally occurring plant growth regulator found in trees. Application of S-ABA controls plant growth, reduces transpiration and water use, and increases the plant's tolerance to environmental stresses (such as drought or chilling).

**GENERAL INFORMATION**

ConShape™ is a PGR product that controls the leader growth of Christmas trees as a substitution for mechanical pruning. With ConShape™, central leaders cease growth a few days after application and retain the full number of buds on the leader which will result in a denser and more attractive branching in the following year. ConShape™ contains a naturally occurring plant growth regulator S-abscisic acid (S-ABA) as the active ingredient.

The primary application use for ConShape™ is for the purpose of controlling the growth of the terminal leader in Christmas tree production, eliminating the need for manual pruning.

(Precision application to the leader is achieved through the use of an Easy Roller. To purchase an Easy Roller for ConShape™ application, please contact Drakes Crossing Nursery by calling (503) 873-4932 Ext. 2 or emailing [info@drakescrossingnursery.com](mailto:info@drakescrossingnursery.com))

**Currently registered in the following states: Oregon, Washington, Michigan, Wisconsin, North Carolina, New York, and Pennsylvania.**

**Table 1: CONSHAPE MIXING TABLE**

PPM S-ABA Desired	Amount to Make One Liter of Solution		Amount to Make One Gallon of Solution	
	Product (ml)	Water (ml)	Product (fl oz)	Water (fl oz)
5,000	50	950	5.6	122.4
10,000	100	900	11.2	116.8
20,000	200	800	22.4	105.6
30,000	300	700	33.6	94.4
40,000	400	600	44.8	83.2

**GENERAL USE INSTRUCTIONS**

Use only as directed. Read the label thoroughly and make sure it is fully understood before making applications. ConShape SL is a growth regulator that contains S-Abscisic acid (S-ABA). S-ABA is a phytohormone found naturally in trees. The product reduces the growth of the leader in Christmas tree production. Undesired effects can result from deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixtures when applying ConShape SL.

**Application Instructions:**

- The optimum usage rate of ConShape SL varies depending on the species, the individual user's production situation and the desired final plant height and appearance. To ensure crop safety, spray a small area prior to large-scale application to determine the optimum ConShape SL rate, timing, and frequency under your individual production situations.
- To prepare treatment solution, mix the required amount of product with the required amount of water in a clean container or spray tank. Discard any unused treatment solution at the end of each day following local, state, or federal law.
- Apply ConShape SL only to the leader using calibrated commercial application equipment in a sufficient volume of water to ensure uniform, thorough, but not excessive coverage.

**APPLICATION PROCEDURE**

We recommend ConShape be applied using an Easy Roller applicator for maximum application accuracy and efficiency. When applying, the roller is placed at the base of the top leader and moved in a continuous upward motion to the tip of the leader. With this method, approximately 1-2 ml of the solution is applied to each leader. Use only one roll/application per tree. Avoid applications during the hottest time of the day.

A useful video on the application of ConShape via Easy Roller is available on YouTube at:

<https://www.youtube.com/watch?v=bV77Ag3C5v4&t=1024s>

**TIMING OF APPLICATION**

Leaders should be treated with ConShape a few days earlier than their desired final leader length. Typically, at 10-12 inches of length. A treatment will be considered successful if the ConShape application can limit leader growth to 2-3 inches of length. For instance, if your desired leader length is 12 inches, you should make the application at 9-10 inches leader length.

**APPLICATIONS, RATES, AND TIMINGS**

CROP	APPLICATION INSTRUCTIONS
<b>Christmas Trees</b>	<p>Use when the terminal leader has reached a length of 8-12 inches (20-30 cm) on 4- to 12-year-old trees.</p> <p>Apply 11.2 - 44.8 fl oz ConShape SL per gallon of final application solution (100-400 ml per liter). (Refer to Table 1 for mixing proportions for desired PPM.) The application should be done with a roller ("Easy Roller") or a similar device, or using a directed spray to the leader. The roller is placed at the base of the leader and moved up in a continuous upward motion only. Uniform application should be ensured to provide complete coverage of the leader and to prevent runoff of the solution.</p> <p>One gallon of application solution treats 1,893 - 3,785 trees (one liter of solution treats 500 - 1,000 trees).</p>

**SUGGESTED PPM RATES BY TREE SPECIES**

Tree Species	Suggested ppm
Noble fir ( <i>Abies procera</i> )	30,000–40,000 ppm
Nordmann fir ( <i>Abies nordmanniana</i> )	20,000–30,000 ppm
Turkish fir ( <i>Abies bornmuelleriana</i> )	20,000–30,000 ppm
Grand fir ( <i>Abies grandis</i> )	20,000–30,000 ppm
Fraser fir ( <i>Abies fraseri</i> )	10,000–20,000 ppm
Douglas fir ( <i>Pseudotsuga menziesii</i> )	30,000–40,000 ppm
Korean fir ( <i>Abies koreana</i> )	30,000–40,000 ppm

**Suggested PPM Disclaimer:**

Can be used with other Christmas tree conifer species, however, it has not been internally tested to determine suggested PPM rate. Christmas tree response to ConShape applications is strongly influenced by tree species, cultural and environmental variables. Water management (irrigation, rainfall), temperature and other cultural practices may impact plant response. To ensure crop safety, treat small areas of trees with various rates prior to large-scale application to determine the optimum ConShape PPM rate under your individual production situations. We recommend marking the treatments with tags or spray pattern indicator dye to track treatments. In general, ConShape applications made under slow drying conditions (cool temperatures, low air movement and medium to high relative humidity) will increase absorption by the plant, thus maximizing effectiveness.

The table above lists optimal use rates of ConShape in various Christmas tree species. Although multiple species have been tested for sensitivity to ConShape and have demonstrated high levels of tolerance, it is impossible to ensure an acceptable response in all cultivars. For first time users of ConShape or when looking at new species, always conduct trials on a limited number of plants to determine crop response.

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**COMPATABILITY WITH OTHER AGRICULTURAL PRODUCTS**

ConShape SL can be tank mixed with DiPel®, BioBit® and XenTari® biological insecticides. Compatibility and performance data for ConShape SL with other agricultural products is not available.

Do not tank mix ConShape SL with compounds containing aluminum, copper or iron ions. Do not tank mix ConShape SL with any product unless compatibility has been verified. If considering tank mixing ConShape SL with other products use the following compatibility jar test before mixing a whole tank:

Add water from the same water source to a clear glass or plastic jar. Add the products in correct proportions. Mix thoroughly and let stand for a minimum of 15 minutes. Separation, gelling, precipitation or generation of heat are all signs of incompatibility.

Even if a mix passes the jar test for compatibility, it is imperative to test it on a designated small number of trees to evaluate for phytotoxicity and effectiveness.

Always read and follow all label directions and precautions of each product. When using combinations of products, the most restrictive of label limitations and precautions must be followed. Do not mix with any product that has a prohibition against tank mixing. For further information consult your local Mycorrhizal Applications Representative (866-476-7800) for specific information regarding the use of this product.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with the terms of the label. 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. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling 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 4 hours.

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.
- Chemical-resistant gloves (made of any waterproof material).
- Shoes plus socks.
- Protective eyewear.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Drench Watering Systems.

**KEEP OUT OF REACH OF CHILDREN**

**Personal Protective Equipment (PPE)**

Applicators and other handlers must wear:

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

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

**User Safety Recommendations**

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

For terrestrial uses, 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.

FIRST AID	
<b>If in Eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 866-476-7800.	

**QUESTIONS?**

If you have any questions about ConShape SL Application, label instructions, or the contents of this Technical Sheet, please contact Mycorrhizal Applications at (866) 476-7800

Registrant:



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**If you have any questions or concerns regarding anything found in this ConShape Technical Sheet, please contact your Distributor or Mycorrhizal Applications Sales Account Manager.**