Cytolin
PLANT GROWTH REGULATOR SOLUTION

ACTIVE CONSTITUENTS: 19 g/L GIBBERELLINS A4 and A7
19 g/L 6-BENZYLADENINE

Can improve fruit shape/typiness in apples.
For thinning in apples when used in combination with MaxCel Plant Growth Regulator.
For thinning of Red Delicious and Gala apples in combination with NAA.
Also for promotion of lateral growth in Red Delicious apples and cherries,
as per the Directions for Use Table.

GENERAL INSTRUCTIONS
The term “improvement of fruit shape” generally refers
to a longer apple or an increased length/diameter ratio. In certain varieties (i.e. Red Delicious) this is
known as “typiness”.
DO NOT apply more than 1.5 L/ha of product when thinning Red Delicious apples.

MIXING AND APPLICATION
This liquid product mixes easily with water. For
improvement of typiness and shape, and for thinning
applications, best results are achieved using
900 to 1200 L/ha water (depending on tree size),
together with a non-ionic wetter at the recommended
rates. Add the required amount to clean spray tank
about half filled with water. Agitate while bringing the
total volume of the water to the required level. Use the
spray solution within 24 hours after mixing.

COMPATIBILITY
The addition of a non-ionic wetting agent at
recommended rates will enhance results. DO NOT
use other pesticides until spray deposits are dry. DO
NOT use another thinner unless recommended.

PROTECTION OF CROPS, NATIVE AND OTHER
NON-TARGET PLANTS
DO NOT apply under weather conditions, or from
spraying equipment, that may cause spray to drift onto
nearby susceptible plants/crops or pastures. DO NOT
apply more than 1,800 L of spray solution per ha.
DO NOT apply NAA after application of this product
except as specifically directed. This product can act
as a thinner. DO NOT apply a specific thinner until
sure of fruit set following application of this product. If
sprayed to run-off, fruit shape distortion, foliage
damage and overshining may result.

PROTECTION OF WILDLIFE, FISH AND
ENVIRONMENT
DO NOT contaminate streams, rivers or waterways
with the chemical or used containers.

STORAGE AND DISPOSAL
Keep out of reach of children. Store in the closed,
original container in a dry, cool, well-ventilated area
out of direct sunlight.

Triple or preferably pressure rinse containers before
disposal. Add rinsings to spray tanks. DO NOT
dispose of undiluted chemicals on site. If recycling,
replace cap and return clean containers to recycle or
designated collection point. If not recycling, break,
crush or puncture and bury empty containers in a local
authority landfill. If no landfill is available, bury the
containers below 500 mm in a disposal pit specifically
marked and set up for this purpose clear of waterways,
desirable vegetation and tree roots. Empty containers
and product should not be burnt.

SAFETY DIRECTIONS
Harmful if swallowed. Will irritate the eyes and skin.
Avoid contact with eyes and skin. When opening the
container and preparing product for use wear cotton
overalls button to the neck and wrist and washable
hat, elbow-length PVC gloves and face shield or
goggles. When using the prepared spray wear cotton
overalls buttoned to the neck and wrist and washable
hat and elbow-length PVC gloves.

If product in eyes, wash it out immediately with water.
After use and before eating, drinking or smoking,
wash hands, arms and face thoroughly with soap and
water. After each day’s use, wash gloves, face shield
or goggles and contaminated clothing.

FIRST AID
If poisoning occurs, contact a doctor or Poisons
Information Centre (ph 13 11 26).

MATERIAL SAFETY DATA SHEET
Additional Information is listed in the Material Safety
Data Sheet (MSDS).

EXCLUSION OF LIABILITY
Unless otherwise expressly stated in writing neither
Valent BioSciences, Sumitomo Chemical Australia Pty
Ltd (“the Companies”) nor the distributor has any
knowledge of the particular use to which the buyer
proposes to put this product. In purchasing this
product the buyer must rely solely upon his own skill
and judgement as to its suitability for the particular
purpose for which it is required. Except to the extent
that exclusion or denial of liability is prohibited under
the Trade Practices Act or any relevant state
legislation, the Companies and the distributor
expressly exclude any warranty as to the quality or fitness of any goods sold for any purpose whatsoever and deny all responsibility in contract tort negligence or otherwise for any harm or damage resulting from the use of such goods or from acting on the advice or recommendations as to such use given in good faith by any representative of the Companies or the distributor. If these conditions are unacceptable to the buyer, the goods should be returned to Valent BioSciences unopened within seven (7) days for refund of purchase price.

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### DIRECTIONS FOR USE:

#### RESTRAINTS
- DO NOT apply if rain is likely within 6 hours.
- DO NOT apply after rain until flower parts are free of droplets.
- DO NOT apply when air temperature is less than 7°C or greater than 32°C.
- DO NOT apply in combination with other growth regulators or pesticides.
- DO NOT apply on trees that are stressed by disease or other factors.

<table>
<thead>
<tr>
<th>CROP</th>
<th>USE</th>
<th>TIMING</th>
<th>RATE</th>
<th>CRITICAL COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apples</td>
<td>Cytolin alone use for improvement of fruit shape and increase in fruit size</td>
<td>Apply at 90% king bloom.</td>
<td>125 mL/100 L water</td>
<td>Single application only. In regions or seasons where the bloom period may be extended a split application is recommended.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply first application at 50% king bloom and second application at 90% king bloom.</td>
<td>65 mL/100 L water</td>
<td>Split application: Use in regions or seasons where the bloom period is extended.</td>
</tr>
<tr>
<td></td>
<td>Cytolin followed by MaxCel use for fruitlet thinning, improvement of fruit shape, quality (flesh firmness and sugar levels) and increase in fruit size</td>
<td>Cytolin application Apply as split application with first spray at 50% king bloom and second spray at 90% king bloom. MaxCel application Apply when king fruitlets are between 7 to 10 mm in diameter. This normally occurs 10 to 25 days after full bloom.</td>
<td>65 mL/100 L Cytolin applied as split application followed by MaxCel at 750 mL/100 L</td>
<td>An application of Cytolin followed by MaxCel enhances the results achieved by Cytolin or MaxCel alone. If using MaxCel in a thinning program, do NOT apply Cytolin after full bloom as this may cause pygmy fruit in some varieties.</td>
</tr>
<tr>
<td>Red Delicious and Gala Apples</td>
<td>Cytolin followed by NAA use for flower thinning</td>
<td>Cytolin application Apply as split application with first at 50% king bloom and second at 90% king bloom. NAA application At full bloom apply NAA.</td>
<td>65 mL/100 L water</td>
<td>Cytolin can be used in combination with NAA (3 mg/L)</td>
</tr>
<tr>
<td>Red Delicious Apples</td>
<td>Stimulation of lateral growth</td>
<td>Apply late October to early November.</td>
<td>150 mL/10 L water</td>
<td>Apply to Red Delicious apple trees using a knapsack sprayer. Add non-ionic wetter at recommended rate. Thoroughly wet foliage on one year old wood in region of tree where laterals are required. NB: Most suitable for 2 to 3 year old trees.</td>
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<tr>
<td>Cherries</td>
<td>Stimulation of lateral growth on non-bearing trees</td>
<td>Apply between budswell and budburst. Apply to trees just after planting or in young non-bearing trees in the following year – still at least one year before trees start to bear fruit.</td>
<td>25 mL + 75 mL acrylic or latex paint</td>
<td>Apply by brush to buds and bark of one year old wood on vigorous trees.</td>
</tr>
</tbody>
</table>

**NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

**WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.**