Pix®

Reg. No. L116  Act No. 36 of 1947

A water soluble solution plant growth regulator, for the
modification of growth in cotton.

Active ingredient: Mepiquat chloride ....... 50 g/l
Aktiewe bestanddeel:

Reg. Nr L116  Wet Nr 36 van 1947

’n Wateroplosbare vloeistof plantgroeireguleerder, vir die
verandering van groei in katoen.

Registered by / Geregistreer deur:
BASF South Africa (Pty) Ltd. / BASF Suid-Afrika (Edms) Bpk.
Co. Reg. No. / Mpy Reg. Nr 66/10235/07
P.O. Box / Posbus 2801
Halfway House / Halfweghuis 1685

Batch Number / Lotnommer:
Date manufactured / Datum vervaardig:

EMERGENCY NUMBER / NOODNOMMER: 083 265 3805

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Geregistreerde Handelsmerk van BASF 81120542ZA1087
WARNINGS

- Do not apply within 30 days of harvest. Do not graze or feed forage of cotton treated with Pix® to livestock within 30 days of application.
- Handle with care.
- Store away from food, seed and feedstuffs.
- Keep out of reach of children, uninformed persons and animals.
- Do not apply Pix® to cotton that is under stress, such as caused by drought, water logging, diseases, weed competition and insect- or hail damage. Under such conditions results may be unsatisfactory and/or delayed maturity may occur.
- Do not apply Pix® at rates and / or times other than those specified in the APPLICATION TABLE, as yield decreases and / or delayed maturity may result.
- Do not apply Pix® if rainfall is expected within eight hours after application, as effectiveness of Pix® may be reduced. The same applies for overhead irrigation.

Although this remedy has been tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions, because the action and effect thereof may be affected by factors, such as abnormal climatic- and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment, harm to man or animal, or for lack of performance of the remedy concerned, due to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS

- Avoid contact with eyes. Should the product come into contact with eyes, immediately flush the eyes with plenty of water.
- Do not eat, drink or smoke while using.
- Prevent spray drift onto other crops.
- TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds, after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank, before destroying the container in the prescribed manner.
- Clean applicator after use, by rinsing it twice with clean water and dispose of the wash water at a safe place.
• Do not contaminate rivers, irrigation channels, dams and fountains.
• Destroy empty container by perforating and flattening and never use for any other purpose.
• Prevent contamination of food, feed, drinking water and eating utensils.

**DIRECTIONS FOR USE:**

**GENERAL DIRECTIONS:**
**Pix** is a foliar applied plant growth regulator, which modifies the cotton plant by regulating its growth pattern and behaviour. **Pix** may produce one or more of the following effects on cotton: Darker leaf colour, reduction of growth in height and internodal length, more open canopy, better boll retention, earlier maturity. Some of these effects may:
- Favourably influence the yield potential of the crop.
- Increase the portion of mature seed cotton for the first picking.
- Facilitate easier harvesting.

**COMPATIBILITY:**
**Pix** is compatible with most modern insecticides and miticides and can be used in tank mixtures. If in doubt, consult your local representative.

**APPLICATION:**
• Apply **Pix** only on healthy, actively growing cotton that is not under any stress during application and is not expected to come under any stress shortly after application.
• **First application:** Apply the first **Pix** application during the early flower bud stage. Use the lower rate in the stage where the first flower buds appear and when the plant height is smaller than 20 cm. Higher rates must be used, when the plants are higher than 20 cm and when the application takes place one week later.
• **Follow-up treatment:** Repeat with intervals of about two weeks, with a **minimum of seven days** and a **maximum of 18 days**, depending on the growth rate of the crop. It is recommended to use shorter intervals and / or higher dosage rates of **Pix** in cases where a high growth rate occurs or is expected. Longer intervals should be compensated with higher rates. Excessive growth normally occurs under high rainfall and high temperature conditions, on very fertile soils and / or where high levels of nitrogen fertilisation have been supplied.
• **Final treatment:** The final **Pix** treatment should be applied at the end of the effective flowering period and it is recommended to use a higher dosage rate for this treatment, in order to eliminate further vegetative growth of the crop (see **APPLICATION TABLE**).
• Ensure that the aerial spray operator knows exactly which fields to spray.
• Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

All spray applications must be made with suitable equipment, that is in good working order and correctly calibrated, to give the desired coverage, for that particular method of application.

<table>
<thead>
<tr>
<th>TYPE OF APPLICATION</th>
<th>PLANT STAGE</th>
<th>DOSAGE RATE mL / ha</th>
<th>DIRECTIONS FOR APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST</td>
<td>First flower buds appearing</td>
<td>125</td>
<td>Plant height &lt; 20 cm and growth rate of 5 – 7 cm / week.</td>
</tr>
<tr>
<td></td>
<td>Advanced flower bud stage</td>
<td>150 – 200</td>
<td>Plant height &gt; 20 cm and growth rate of &gt; 8 cm / week.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150 – 200</td>
<td>Plant height &gt; 25 cm.</td>
</tr>
<tr>
<td>FOLLOW-UP</td>
<td>Flower buds and flower stage</td>
<td>125 – 150</td>
<td>Use lower rate in case of moderate growth (5 – 7 cm / week) and / or short spray intervals.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150 – 200</td>
<td>Use higher rate in case of excessive growth (&gt; 8 cm / week) and / or longer spray intervals.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250</td>
<td>Use highest rate in case of extremely excessive growth (&gt; 10 cm / week)</td>
</tr>
<tr>
<td>FINAL</td>
<td>End of effective flowering</td>
<td>300 – 500</td>
<td>Use lower rate in case of low growth rate. Use higher rate in case of moderate to strong growth.</td>
</tr>
<tr>
<td></td>
<td>period</td>
<td></td>
<td></td>
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</tbody>
</table>
• Pix® can be applied by tractor operated equipment, as well as by means of aerial application. A minimum of 200 l water / ha should be used with ground equipment and 40 l with aerial application.
• Ensure that spray equipment is well calibrated and that only the prescribed amount of Pix® per ha is applied.

Aerial application:
Aerial application of Pix® may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:
• **Volume:** A spray mixture volume of 30 per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
• **Droplet coverage:** 50 - 70 droplets per cm² must be recovered at the target area.
• **Droplet size:** A droplet spectrum with a VMD of 250 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift and evaporation potential) to a minimum.
• **Flying height:** Maintain the height of the spray boom at 3 - 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking
• Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
• Position all the atomisers within the inner 60 - 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
• The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8 ºC.
• Stop spraying if the wind speed exceeds 15 km / h.
• Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
• Spraying under temperature inversion conditions (spraying in or above the inversion layer) and / or high humidity conditions (relative humidity 80 % and above) may lead to the following:
  - Reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
  - Damage to other sensitive crops and / or non-target areas through drifting of the suspended spray cloud away from the target field.