A micro-emulsion formulation containing 60g/L of carfentrazone-ethyl for the control of weeds in potatoes, desiccation of potato haulm and for weed control prior to planting any edible or non-edible crop.

Clayton Xenon contains 60g/L carfentrazone-ethyl in a micro-emulsion formulation.

Signal Word: WARNING.
May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

Wear protective gloves, protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collective site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

To avoid risks to human health and the environment, comply with the instructions for use.

IMPORTANT INFORMATION: FOR USE ONLY AS A PROFESSIONAL HERBICIDE

<table>
<thead>
<tr>
<th>Crop</th>
<th>Maximum individual dose (L/ha)</th>
<th>Maximum number of applications at maximum single dose</th>
<th>Maximum total dose (L/ha)</th>
<th>Latest time of application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potato (ware)</td>
<td>Weed control: 0.333</td>
<td>One per crop</td>
<td>0.333</td>
<td>Up to 10% crop emergence</td>
</tr>
<tr>
<td></td>
<td>Desiccation: 1.0</td>
<td></td>
<td>1.6</td>
<td>7 days before harvest</td>
</tr>
<tr>
<td>Potato (seed)</td>
<td>Weed control: 0.333</td>
<td>One per crop</td>
<td>0.333</td>
<td>Up to 10% crop emergence</td>
</tr>
<tr>
<td></td>
<td>Desiccation: 1.0</td>
<td></td>
<td>1.6</td>
<td>7 days before harvest</td>
</tr>
<tr>
<td>All edible and non-edible crops (before planting)</td>
<td>0.33</td>
<td>One</td>
<td>0.33</td>
<td>One month before planting</td>
</tr>
</tbody>
</table>

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.
**DIRECTIONS FOR USE OF CLAYTON XENON**

**Important:** This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

**Restrictions**
Do not leave the diluted product in the tank overnight.

*Clayton Xenon* should not be applied through knapsack sprayers. Because some non-target plants are sensitive to *Clayton Xenon*, avoid spray drift onto broad-leaved crops outside the target area.

**Directions for Use**
Important: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

*Clayton Xenon* is a contact herbicide/desiccant which can be used for weed control in potatoes, for weed control prior to planting a subsequent crop and as a desiccant of potato haulm. Consult processors before using two or more applications of *Clayton Xenon* on first and second early varieties of potato as safety has not been established.

*Clayton Xenon* is a contact herbicide/desiccant and therefore needs good coverage to optimise efficacy. *Clayton Xenon* also works on leaves when crops are senescing. It is safe to use on all soil types in either dry conditions or before rain is forecast.

**Weed Control**
*Clayton Xenon* is a contact only herbicide. Weeds emerging after an application will not be controlled. The following weeds are susceptible to *Clayton Xenon* when applied early post-emergence:

**Broad-Leaved Weeds Growth stage**

- **Black bindweed**: Cots – 2ETL susceptible
- **Cleavers**: Cots – 1 whorl susceptible
- **Common groundsel**: Cots – 1ETL susceptible
- **Fat hen**: Cots – 1ETL susceptible
- **Field pansy**: Cots – 4ETL susceptible
- **Ivy-leaved speedwell**: Cots – 4ETL susceptible
- **Knotgrass**: Cots – 3ETL susceptible
- **Perennial sowthistle**: Cots – 2ETL susceptible
- **Redshank**: Cots – 3ETL susceptible
- **Small nettle**: Cots – 2ETL susceptible
- **Volunteer oilseed rape**: Cots – 2ETL susceptible

**For Use as an Early Post Emergence Herbicide in Potatoes**

**Timing**
*Clayton Xenon* may be applied from pre-crop emergence up to 5% crop emergence (i.e. 1 plant in 20 emerged) in first early varieties and before 1% crop emergence (i.e. 1 plant in 10 emerged) in second early and maincrop varieties. No plants should be more than 10cm high in any case.

Weeds: For optimum control application should be made when weeds are between the cotyledon and 2-4 expanded leaf stage. Weeds emerging after application will not be controlled. Treatment may cause burn off of emerged potato shoots within 7-10 days. Subsequent crop growth and yield are unaffected.

**Dose**: The recommended dose of *Clayton Xenon* is 0.333 L/ha.

**Volume of Water and Spray Pressure**: Apply *Clayton Xenon* in 200 L of water per hectare at a minimum spray pressure of 3 Bar using a MEDIUM spray quality.

**For Use Prior to Planting a Subsequent Crop**

**Timing**: Apply *Clayton Xenon* when the weeds are no bigger than the maximum growth stages stated in the weed control table. An interval of 1 month must be observed before planting any subsequent crop.

**Dose**: The recommended dose of *Clayton Xenon* is 0.333 L/ha.

**Volume of Water and Spray Pressure**: Apply *Clayton Xenon* in 200 L of water per hectare at a minimum spray pressure of 3 Bar using a MEDIUM spray quality.

**Potato Haulm Desiccation**

**Timing**

Seed and ware crops: Apply *Clayton Xenon* at the onset of senescence. For crops with very vigorous haulm or where re-growth occurs following a single application a second application may be necessary to achieve satisfactory desiccation. This may be the case for certain maincrop varieties, especially Maris Piper, because of inherent vigour. A minimum interval between applications of 7 days should be observed to achieve optimum performance. Allow at least 14-21 days to elapse between the final application and lifting to allow skins to set if tubers are to be stored.

Flailed Crops: Crops should be flailed when tubers have reached the desired size and sprayed with *Clayton Xenon* ensuring that the flailed haulm is not covering the stems that remain. Efficacy will be reduced where flailed, haulm covers the stems at application.

**Dose**

Seed and ware crops: The recommended dose of *Clayton Xenon* after flailing the crop is 1.0L/ha. When a second application is made this must not exceed 0.6L/ha.

**Volume of Water and Spray Pressure**: Apply *Clayton Xenon* in 300 to 600 L of water per hectare. Use a higher water volume where potato foliage is dense and at a minimum spray pressure of 3 Bar. A MEDIUM spray quality should be used.

**Spray criteria**: As *Clayton Xenon* acts by contact action only it is important to follow the application parameters stated below to achieve optimum desiccation to be achieved.

- Application using a well-maintained and calibrated sprayer
- Volume of water adjusted to the density of foliage (300-600 L/ha).
- Pressure and forward speed adjusted to obtain the best penetration of the product into the foliage

**Succeeding and Replacement Crops**: There is no restriction on the planting of any succeeding crop 1 month after the application of *Clayton Xenon*.

**Mixing**

**Shake Well Before Use.** Half fill the spray tank with clean water. Commence agitation. Steadily pour the required amount of *Clayton Xenon* into the spray tank or induction bowl. Ensure all product has thoroughly mixed with the water and no traces are present in the induction bowl. Complete filling of the spray tank and maintain agitation until spraying is complete.

**Spray Tank Clean-Out**

To avoid potential damage to other crops thoroughly clean all spray equipment (including inside and outside of the lid) using clean water:

1. Immediately after spraying *Clayton Xenon*, drain tank completely. Any contamination of the outside of the spraying equipment should be removed by washing with water to which should be added a commercially available cleaning agent.
2. Rinse the inside of the tank with clean water, to which should be added a commercially available cleaning agent and flush through the boom and hoses using at least one tenth of the spray tank volume. Drain tank completely. Repeat operation.
3. Do not contaminate surface waters or ditches with rinse water or empty containers.

**Disposal of Empty Packaging and Surplus Product After Treatment**

The empty packaging which contained this product must be rinsed with water using a manual system (three successive rinsing procedures), or by using a system of washing with water under pressure. The water used for cleaning must be returned into the spray tank.

The packaging must be removed by the user to an assembly point established for this purpose. Dilute any surplus product left after treatment by about 10 times, and spray it on the area already treated in accordance with the instructions for use.