ARROW 400 OD™

Contains: Nicosulfuron 40 gr/Lt as Oil Dispersion

✔ Arrow 400 OD™ is a selective post-emergence herbicide for the control of grasses and broad-leaved weeds in maize.

✔ Arrow 400 OD™’s unique formulation ensures safe and more effective use of the included active ingredient.

✔ Member of the Sulphonylurea family of herbicides.

Special notes

- Buffer Zone restrictions: B
- Do not apply if rain is expected within the next 6 hours.
- PHI - Last application before harvest: 60 days.

Mode of Action

- ARROW 400 OD™ is a selective systemic herbicide, absorbed both from the leaf surface and the root system, with rapid translocation throughout the plant, moving in both the xylem and phloem and accumulating in the meristematic tissue.
- It controls weeds by inhibiting the ALS - acetolactate synthase enzyme. The enzyme is responsible for the biosynthesis of various amino-acids in plant species.
- This enzyme is not found in livestock, fish or man, making Arrow 400 OD™ a very safe for use herbicide.
Post-emergence Application in MAIZE

- General Rate: 1.0-1.5 Lt/ha - (100 - 150ml’s in 15L Knapsack) using a spray volume of 150L per Ha.
- Dependent on:
  - Grass weed species
  - Weed development stage
  - Density of weeds in the field

- Arrow 400 OD™ can be used to control the following weeds in Maize:

![Image of field treated with Arrow 400 OD™]

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Latin Name</th>
<th>Dose Rate (L/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual meadow-grass</td>
<td>Poa annua</td>
<td>1.0</td>
</tr>
<tr>
<td>Ryegrass</td>
<td>Lolium spp.</td>
<td>1.0</td>
</tr>
<tr>
<td>Fat hen</td>
<td>Chenopodium album</td>
<td>1.5</td>
</tr>
<tr>
<td>Redshank &amp;</td>
<td>Polygonum hypochondriac</td>
<td>1.5</td>
</tr>
<tr>
<td>Pale persicaria &amp;</td>
<td>P. persicaria</td>
<td>1.5</td>
</tr>
<tr>
<td>Chickweed</td>
<td>Stellaria media</td>
<td>1.5</td>
</tr>
<tr>
<td>Mayo-weeds</td>
<td>Matricaria spp.</td>
<td>1.5</td>
</tr>
<tr>
<td>Common amaranth</td>
<td>Amaranthus retroflexus</td>
<td>1.0</td>
</tr>
<tr>
<td>Shepherds purse</td>
<td>Capsella bursapastoria</td>
<td>1.0</td>
</tr>
<tr>
<td>Groundsel</td>
<td>Senecio vulgaris</td>
<td>1.0</td>
</tr>
<tr>
<td>Common orchace</td>
<td>Atriplex polonica</td>
<td>1.5</td>
</tr>
<tr>
<td>Annual mercury</td>
<td>Mercurialis annua</td>
<td>1.5</td>
</tr>
<tr>
<td>Black bindweed</td>
<td>Fallopia cambrica</td>
<td>1.5</td>
</tr>
</tbody>
</table>

*For susceptible weeds, the effectiveness is generally 80-100%.

Best effective when maize is 3-5 leaves and weeds 2-4 leaves.

Instructions for Efficient and Effective Use of Arrow 400 OD™

ARROW 400 OD™ is applied post-emergence with a non-ionic surfactant (0.1-0.2% - 100-200 ml/ 100lt spray mixture) when weeds are 10-25 cm tall and actively growing.

ARROW 400 OD™ can be used post-emergence at the recommended rate to directly target specific weed species. Choose the correct dose for the weeds present. As part of a weed resistance management plan Arrow 400 OD™ must be used in sequence with herbicides with other modes of action that are active against the same weeds, particularly in continuous maize.

Under certain conditions, some transient yellowing and/or crop stunting and/or loss of vigour can be seen from 1 to 2 weeks after treatment (2-8 leaves of maize). This is quickly outgrown and no yield effect has been shown.

- Some flower deformation may be seen on particularly sensitive varieties e.g. Rival
- Applications should not be made to maize crops that are under stress, as this may lead to incidences of more persistent crop damage, such as loss of vigour, particularly when poorer growing conditions follow treatment. This may cause loss of yield.
- Take care to ensure that products are evenly applied at the recommended dose to a healthy crop.
**Instruction for Use**

- Fill 1/3 of the tank with clean water and add the required amount of the product. Ensure adequate agitation during filling, mixing and spraying.
- It must be applied within the same day of preparation. DO NOT let it stay overnight.
- ARROW 400 OD™ must be applied using equipment which gives a good coverage of weeds (we recommend a Spray Quality “MEDIUM” as defined by BCPC and corresponding to a mean droplet size of 225 microns).
- Minimum of 200 lt water per ha as a MEDIUM quality spray

**Compatibility**

- Do not treat with ARROW 400 OD™ once a soil insecticide based on an organophosphate has been applied.
- Do not apply ARROW 400 OD™ and a foliar treatment containing an organochlorine insecticide to the same maize crop.
- Do not mix ARROW 400 OD™ with foliar or liquid fertilisers.
  - ARROW 400 OD™ contains a sulphonylurea herbicide. It must not be applied in mixture or sequence with other herbicides of the same family.

**Precautions**

**Handling and Application:**
Avoid contact with skin, eyes or clothing. Always use suitable protective clothing, gloves and eyewear. Avoid prolonged or repeated exposure. Do not breathe vapours. Do not eat, drink or smoke at work. Wash hands thoroughly after handling or contact. Thoroughly clean equipment after use. Provide for good ventilation.

**Storage:**
Store in closed original packaging. Keep container at a cool, dry and well ventilated place. Do not store for prolonged periods in direct sunlight. Store at ambient temperatures. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children.

**Transport:**
Do not carry ARROW 400 OD™ in a vehicle that is also used to transport food. Keep ARROW 400 OD™ in its original container.
**FIRST AID TREATMENT**

- Inhalation: Bring affected victim outside away from exposure and provide for fresh air. Call for medical advice if there’s pain in breathing.

- Eye contact: Immediately rinse eyes with plenty of water for 15 minutes ensuring eyelids are held open. Obtain medical advice if irritation persists.

- Skin contact: Immediately wear off contaminated clothing. Wash affected skin with water and soap. Seek medical advice if symptoms persist.

- Ingestion: Immediately drinking of plenty of water. Do NOT induce vomiting. Immediately obtain medical advice. Keep patient at rest. Never give anything by mouth or induce vomiting to an unconscious patient.

**ASK FOR PROFESSIONAL ADVICE**

**TOXICITY STUDIES**

**Acute toxicity**

- Acute oral: LD50 for rats >5000 mg/kg
- Acute dermal: LD50 for rats > 2000 mg/kg
- Acute inhalation: LC50 (4h) for rats 5.47 mg/l
- Skin and eye irritation: Mild irritant to rabbit’s skin and eyes.
- Sensitization: not a skin sensitizer (guinea pigs)
- Class: WHO (ai) IV.

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