



INTERNATIONAL LABEL TEXT

All country-specific regulations must be observed.

AXIAL[®] 045 EC

A-15245 A

Pack size:

Registration Number:

Emulsifiable Concentrate

Herbicide

For the control of grass weeds in wheat and barley

Active Ingredient Content

45 g/litre Pinoxaden*

* 2,2-dimethyl-propanoic acid 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (CA)

Note: contains 11.25 grams/litre of cloquintocet mexyl** as safener

** [(5-chloro-8-quinolinyloxy)-acetic acid 1-methylhexyl ester (CA)

Physical Properties

Clear yellow orange to orange brown liquid.

First Aid / Antidote

If any indisposition occurs, call a physician and apply First Aid measures as described on page 3. No specific antidote is known. Apply symptomatic therapy.

Hazard Classification

WHO Class III (slightly hazardous)

					Harmful				
Green									

Irritant to eyes and skin.
KEEP LOCKED UP OUT OF REACH OF CHILDREN. KEEP AWAY from food, drink and animal feeding stuff. WEAR suitable protective clothing, gloves and eyes/face protection.
Telephone Johnson Controls, Basel, Switzerland: +41 61 696 33 33

Note: Registration number and pack size must appear on all local labels.

This ILT serves as a basis for local label texts.

Product Information

Mode of Action

AXIAL® 045 EC is taken up through the leaves of grass weeds. Active growth of susceptible grasses ceases within 48 hours after application. Symptoms are observed within one to three weeks depending on environmental conditions and species involved. Decay of nodes and growing points is visible, with young leaves showing chlorosis followed by necrosis.

The safener cloquintocet mexyl selectively prevents phytotoxic effects in wheat and barley by considerably accelerating the metabolism of the active ingredient.

Spectrum of Activity

AXIAL® 045 EC controls a wide range of the important annual grass weed species in wheat and barley.

Weed spectrum and directions for use

Grass weed species	AXIAL® 045 EC ml/ha	Growth stage at application
<i>Alopecurus myosuroides</i>	1000-1300	700-1300
<i>Apera spica-venti</i>	1000	13 - 39
<i>Avena ludoviciana</i>	700-1000	13 - 39
<i>Avena sterilis</i>	700-1000	13 - 39
<i>Avena fatua</i>	700-1300	13 - 39
<i>Lolium multiflorum</i>	1000-1300	13 - 39
<i>Lolium rigidum</i>	1000-1300	13 - 39
<i>Phalaris minor</i>	700-1000	13 - 39
<i>Phalaris paradoxa</i>	700-1000	13 - 39
<i>Poa trivialis</i>	1000-1300	13 - 25
Bromus spp. Poa annua	not controlled	

Other grasses may not be mentioned here as they are country specific

* Growth stage = BBCH code

Limitations

Resistance

The repeated use of this product or herbicides with the same mode of action may lead to a selection of resistant weeds. Certain agronomic practices may reduce the likelihood that resistant weeds will arise. Your local SYNGENTA Crop Protection sales representative, distributor or dealer can be consulted for the most up-to-date information.

Crop tolerance

Excellent crop tolerance including a double safety margin has been observed in wheat and barley when applied between the 3-leaf stage and stem elongation of the cereal crops. AXIAL® 045 EC is not recommended for use in oats.

Re-cropping flexibility

AXIAL® 045 EC is quickly degraded in the soil and has little or no soil activity. There are no re-cropping restrictions.

Directions for Use

Application Information

Application technique / parameters

Spray Equipment

For the application of AXIAL® 045 EC tractor boom sprayers and aircraft are recommended. Stop spraying in winds higher than 5 m/s.

All application equipment has to be properly calibrated before use, with regard to forward speed, flow rate and evenness of distribution.

With tractor boom sprayers volume rates of 100 - 400 l/ha are best. Use 110° flat fan low drift nozzle types at 1.5 - 3 bar pressure and 40 - 50 cm boom height.

Use only aircraft equipped with boom and flat fan nozzles. The nozzles should have a spray angle of 65 - 90° and directed in relation to the flight direction 180 - 135° backwards. Spray volumes of 20 - 50 l/ha are best. Rotary atomisers are not recommended. Stop spraying if the temperature is higher than 30° C or the relative humidity is lower than 60 %.

Mixing

Make certain the sprayer is clean and not contaminated. Calculate carefully the required amount of spray mixture in order to prevent any left over in the spray tank after treatments.

Rinse empty containers 3 times and add the rinsing to the spray mixture.

Fill 1/4 - 1/2 of the spray tank with clean water, start agitation, add the calculated and measured quantity of product and continue to fill the spray tank with agitation. Continue agitation during mixing and application to maintain a uniform spray mixture. When filling the spray tank the filling hose should always be above water level in order to prevent suckback.

Flush the sprayer with clean water after application or at the end of the day by spraying the rinsing at a dilution rate of at least 1:10 (spray mixture:rinsing) on the crop. Clean also the filters.

Timing

Application of AXIAL® 045 EC must be made post-emergence to the cereals and grass weeds.

Best results are obtained by applying AXIAL® 045 EC when the majority of the grass weeds have emerged and are actively growing e.g. under warm, moist conditions.

AXIAL® 045 EC has no residual activity and therefore grass weeds emerging after application will not be controlled. Do not apply if rainfall is expected within 1 hour.

Compatibility

AXIAL® 045 EC can be mixed with bromoxynil, ioxynil, fluroxypyr and most common sulfonylurea type products to control both grasses and dicot weeds. Some degree of antagonism of grass control on certain grass species can be expected when mixed with other types of hormone herbicides such as dicamba. Compatibility with specific local dicot herbicide products and bio regulators has to be checked on a case-by-case basis.

Restrictions of use

Do not apply AXIAL® 045 EC in oats.

Safety Aspects

Precautionary measures

KEEP LOCKED UP OUT OF REACH OF CHILDREN and other unauthorised persons, and animals.

Operator safety

AVOID any contact of skin, eyes or clothing with concentrate or spray mixture. DO NOT breathe vapour or spray mist. DO NOT eat, drink or smoke while handling the product, wash hands and face before doing so. If any indisposition occurs, stop work, follow first aid measures, and call a physician. Spray strictly with the wind to prevent prolonged or repeated exposure to the spray mist.

WEAR protective clothing, i.e. for preparation: impermeable gloves, overalls, and eyes/face protection, for application: overalls, hat or cap, and solid footwear. AFTER USE, thoroughly clean protective equipment and wash entire body and change clothing. Wash contaminated clothing before re-use.

First Aid

If poisoning is suspected, stop work immediately and call a physician. Show label to the physician. In case of contact with skin, remove contaminated clothing, wash affected body parts immediately with plenty of water and soap. Rinse splashes from eyes with abundant fresh and clean water for several minutes. If inhaled move to clean air. If swallowed, repeatedly administer medicinal charcoal in plenty of water. Seek medical advice immediately if a large volume of concentrate was ingested.

Note: Never give anything by mouth to an unconscious patient and never induce vomiting.

Environment and wildlife

Toxic to fish and other aquatic organisms. DO NOT contaminate water used for irrigation or domestic purposes and water areas, such as ponds, ditches, lakes, drainage systems, etc. by disposal of product waste. Newly treated areas must not be grazed and all livestock is to be kept out.

Spillage and leakage

Remove heavily contaminated soil layer and bury in a safe place away from water supplies. Collect up spilt material thoroughly and bury it in a safe place or put it in a waste bin or in a plastic bag and dispose of on a landfill-site approved for pesticides. Rinse spill area with plenty of water.

Note: Spilt product must not be re-used.

Product and container disposal

Provided there are no local legal or other rules and regulations, the following procedure is recommended: Dispose of surplus product on a landfill site approved for pesticides or bury in a safe place away from water supplies. Dilute surplus application mixture, pour it broadcast on fallow land. Empty the containers well, rinse several times and add the rinse solution to the spray tank. Dispose of containers made of cardboard, paper or plastic on a landfill site or burn in a safe place. If burned stay out of the smoke. Be sure that the smoke or fumes will not damage nearby plants, crops or trees, or harm animals. DO NOT re-use empty containers for any other purpose.

Note: ALWAYS comply with local legal requirements.

Storage conditions

Store away from sun and damp, in a well ventilated area apart from food and feed, under lock and key. DO NOT contaminate water, food or feed.

AVOID storage below -10°C and above +35°C.

DO NOT stack containers in piles more than 2 m high, in order to avoid product compaction or damage.

Shelf-life

The shelf life is:

for temperate climates: at least 3 years
for hot climates: at least 2 years

(According to the FAO Guidelines on Good Labeling Practice, if the shelf life as registered under local conditions is 2 years or more, no information on the label is required, unless explicitly requested by the local Registration Authorities; if the shelf life is less than 2 years, then information on storage stability must appear on the label, e.g.):

“at least years from date of manufacturing, in unopened containers.”

or

“best use before (date).”

Legal Aspects

Before applying the product read the attached package leaflet.

User's risk

The user bears the risk for damage resulting from factors beyond the manufacturer's control.

Resistant strains of weeds may develop or may exist against which herbicides may be less effective. Since the occurrence of such strains cannot be forecast, neither the manufacturer nor its distributors can assume responsibility for any loss or damage caused by failure to control resistant weeds.

All recommendations for use of the herbicide are based on the current state of the manufacturer's knowledge. Since the manufacturer cannot control the farmers' choice of herbicides, its application, use, storage or processing of the product or other agronomic practices, the manufacturer cannot assume responsibility therefor.

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