

Read the label before opening the container.

For full particulars, see enclosed leaflet.

KEEP OUT OF REACH OF CHILDREN AND ANIMALS

MOXIMUM™ 40 SL

South Africa Reg. No: L11630 Act No. 36 of 1947

HRAC HERBICIDE GROUP CODE: B

MOXIMUM™ 40 SL is a water soluble herbicide for the control of annual broadleaf and grass weeds in legume pastures and Clearfield® Canola.

ACTIVE INGREDIENT:

Imazamox (imidazolinone).....40g/ℓ

Product Information: 072 678 8226
In case of poisoning: 082 446 8946

HAZARD STATEMENTS

- Suspected of damaging fertility or the unborn child
- Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

- Avoid release to the environment.
- Collect spillage.



WARNING

enviro
bio-chem

Registration holder: Enviro Crop Protection (Pty) Ltd
Co. Reg. No: 2007/027855/07

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UN No. 3082

Expiry Date:
Batch No:
Date of Manufacture:

WARNINGS:

ALLOW THE FOLLOWING MINIMUM NUMBER OF DAYS BETWEEN APPLICATION AND HARVEST, BAILING OR GRAZING OF THE CROP	
Clearfield® Canola	30 days
Clovers, medic and other temperate pasture crops	14 days
Lucerne	22 days

- Handle with care.
- Suspected of damaging fertility or the unborn child
- Very toxic to aquatic life with long lasting effects.
- Store in a cool place away from food, feeds and seed.
- Keep out of reach of children, uninformed persons and animals.
- Use only on the varieties of legume pastures mentioned below.
- Use only on Clearfield® Canola varieties registered by the relevant seed companies. Clearfield® is a registered trademark of BASF.
- To avoid injury to other crops, spray equipment used for MOXIMUM™ 40 SL applications must be drained after use and thoroughly cleaned with water before being used to apply other products to crops.

Although this remedy has been extensively tested under a wide variety of conditions, the registration holder does not warrant that it will be effective under all conditions because the activity and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weed against 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 or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instruction or 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:

- Obtain, read and follow all safety instructions before use.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If exposed or concerned, get medical advice.
- Avoid spray drift onto other crops, grazing, rivers, dams and any area not under treatment.
- Thoroughly wash and rinse spray equipment after use and dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- Do not apply where the roots of desirable plants can absorb the chemical.
- Triple rinse empty container 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 empty container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the content of the spray tank. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils.

RELEVANT SUBSTANCES

Imazamox	4%
Ammonia water	< 3%
Polyoxyethylene isodecyl ether	< 15%
EDTA	< 1%

FIRST AID TREATMENT:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of water and non-abrasive soap.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

RESISTANCE WARNING:

MOXIMUM™ 40 SL is a member of the Imidazolinone HRAC Group Code B of Herbicides. The product has the inhibitors-of-acetolactate-synthase (ALS) mode of action. In any weed population there are certain weed biotypes that are naturally resistant to herbicides with specific modes of action. The repeated and possibly uninterrupted use of herbicides with the same mode of action, cause these naturally occurring biotypes to become dominant in numbers over time. These resistant weeds are not controlled and the result is experienced as poor weed control, although the herbicide may have been applied at the correct dosage rate and timing. This is also true for **MOXIMUM™ 40 SL** and other ALS-inhibiting herbicides. Therefore, Enviro Crop Protection (Pty) Ltd cannot be held responsible for poor control of such resistant weeds, or any losses that may result from the use of **MOXIMUM™ 40 SL**. The following actions are recommended to delay the selection of resistant weeds:

- It is important to understand and know the modes of action of the different herbicides available.
- Apply only one application **MOXIMUM™ 40 SL**, or any herbicide belonging to this group of herbicides, per season.
- To prevent weeds becoming resistant in future, do not apply **MOXIMUM™ 40 SL** or **ANY OTHER HERBICIDE BELONGING TO THE GROUP B TYPE OF HERBICIDES** (e.g. SU's) on the same land in two consecutive years.
- If any further herbicide applications are required during this or following season on this land, use herbicides with a different mode of action.

FOR SPECIFIC INFORMATION ON RESISTANCE MANAGEMENT, CONTACT THE REGISTRATION HOLDER, ENVIRO CROP PROTECTION (PTY) LTD.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

Poisons Helpline: 0861 555 777

USE RESTRICTIONS:

- Avoid the application of **MOXIMUM™ 40 SL** to acid soils with pH (KCl) below 4,5.
- Avoid overlaps when spraying.
- Do not apply when wind velocity exceeds 15 km/h, when temperature inversion conditions exist or when the spray mist may drift onto sensitive crops. Ideally a buffer zone should be established between the area to be sprayed and sensitive crops. Sensitive crops include, but are not limited to leafy non-legume vegetable crops, cereal crops and canola varieties other than **Clearfield®** Canola.
- To avoid possible damage to follow-up crops the following waiting periods should be taken into consideration after the application of **MOXIMUM™ 40 SL**. A test planting is nevertheless recommended.

WAITING PERIODS:

CROP	WAITING PERIOD
a) Dry beans, clover, groundnuts, Lucerne, medics, soya beans, subterranean clover and Clearfield® Canola.	None*
b) Wheat.	6 Months*
c) Any legume crop other than those mentioned in (a) above.	10 Months*
d) Maize (all maize producing areas, including irrigation).	10 Months
Except for production areas as indicated below:	
1. Western Free State, western North-West Province and northern Northern Cape Province where the waiting period is 20 months.	20 Months
2. If the cultivars listed below are to be planted in the above production areas, the 20 months may be reduced to 10 months.	10 Months
e) All other crops.	24 Months*

YELLOW MAIZE CULTIVARS			WHITE MAIZE CULTIVARS	
Goldfinger	CRN 3760	PHB 3335	CRN 3549	PHB 3203
Highflyer	CRN 4502	PHB 3394	CRN 3631	PHB 3253
ADV 8481 IT	PAN 6146	PHB 3442	CRN 3891	PHB 32H39
ADV 8541 IT	PAN 6364	PHB 35A19 IT	LS 8503	SNK 2147
Woodriver	PHB 30H22	SNK 2640	SC 707	SNK 2401
CRN 3414	PHB 3162 IR	SNK 2776	PAN 6043	SNK 2665
CRN3604	PHB 32K61	SNK 2860	PAN 6233	

* **NOTE:** The above mentioned waiting periods will only be valid if the correct quantity of **MOXIMUM™ 40 SL** has been applied and an average or above average rainfall has been experienced during and after the season in which the **MOXIMUM™ 40 SL** has been applied. Prepare a well tilled seedbed before planting a follow crop. Consult the supplier in the event of any uncertainty.

GENERAL INFORMATION:

- **MOXIMUM™ 40 SL** must always be tank mixed with **BOOSTER AS™** at 4 ℓ/ha and applied as a post-emergent application to the weeds.
- The mode of action of **MOXIMUM™ 40 SL** involves the uptake by the plant foliage, which is followed by translocation to the growing points. After **MOXIMUM™ 40 SL** application, susceptible weeds may show yellowing and weed growth will stop. Susceptible weeds stop growing and either die or are not competitive with the crop.
- Adequate soil moisture is important for optimum **MOXIMUM™ 40 SL** activity. Therefore weeds must be actively growing and not be under stress (e.g. drought, waterlogged or nutrient imbalances) during application, as this can limit the uptake and translocation of the product.
- Legume Pasture may be treated at any time after the full emergence of the third trifoliate leaf and before flowering.
- **MOXIMUM™ 40 SL** can only be applied to **Clearfield® Canola** after the 5-leaf stage. Do not apply too late when the leaf canopy of the **Clearfield® Canola** is too big in so preventing the herbicide from reaching the targeted weed and resulting in poor control.
- Application timing should be based on weed size and not crop growth stage.

- Delay application until the majority of weeds have germinated as weeds that emerge after application will not be controlled. It is therefore important to apply when most weeds have emerged and before they exceed the size as indicated in the table together with consideration of the crop stage.
- Where crop stand is poor, the weed control could be inadequate due to the lack of competition by the crop.
- Ensure thorough coverage and wetting of the weeds, especially when crop foliage is dense.
- Use **MOXIMUM™ 40 SL** only on the Legume Pasture cultivars as listed below. The cultivars marked (*) may show slight discoloration or stunting, soon after application, but the crop will recover.
- **MOXIMUM™ 40 SL** may only be used on **Clearfield®** Canola. For further information on where to obtain **Clearfield®** Canola, please contact your nearest Enviro Crop Protection office.
- If another crop, stipulated under **WAITING PERIODS** in the table above, is to be planted the following season, after the lucerne, no more than one application of **MOXIMUM™ 40 SL** must be made for that growing season.
- Occasionally, internode shortening and/or temporary yellowing of crop plants may occur following **MOXIMUM™ 40 SL** applications. These effects can be more pronounced if crops are growing under stressful environmental conditions. These effects occur infrequently and are temporary.

COMPATIBILITY

The compatibility of **MOXIMUM™ 40 SL** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made.

MIXING INSTRUCTIONS:

Three-quarter fill the spray tank with clean water. Measure the required volume of **MOXIMUM™ 40 SL** and pre-mix this with at least 10ℓ water before adding to the spray tank. If any other product is to be mixed with **MOXIMUM™ 40 SL** pre-mix the required volume of product in similar fashion. Agitate the water in the spray tank and add a flowable (50%) high quality **BOOSTER AS™** first and then **MOXIMUM™ 40 SL**. Fill the spray tank with water to the required level while maintaining agitation to ensure thorough mixing of the spray mixture before spraying commences. Maintain agitation while spraying. The prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

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.

CROP	DOSAGE	DIRECTIONS FOR APPLICATION		
LUCERNE Clearfield® CANOLA and ANNUAL WINTER LEGUME PASTURES: Medics, clover, seradella and subterranean clover.	1,2ℓ/ha	Ground Application: With boom and nozzles: Apply the prescribed dosage rates of MOXIMUM™ 40 SL and BOOSTER AS™ , as a post-emergent application by means of a suitable ground applicator in at least 200ℓ water/ha, as an overall application.		
	plus			
	4ℓ/ha	Only one application of MOXIMUM™ 40 SL may be made during a growing season on an annual crop. However, more than one application can be made on lucerne per growing season. If necessary, the second application can be made immediately after any of the early to mid-season cuttings, when the weeds are smaller than the maximum growth stages mentioned in the table below.		
	BOOSTER AS™	See DIRECTIONS FOR USE above.		
		WEEDS NORMALLY CONTROLLED BY MOXIMUM™ 40 SL		
		WEED	COMMON NAME	MAXIMUM GROWTH STAGE AT APPLICATION
		GRASSES		
		<i>Avena fatua</i>	Common wild oats	1st leaf to 1st node
		<i>Avena sativa</i>	Volunteer oats	1st leaf to 1st node
		<i>Bromus diandrus</i>	Ripgut brome	1st leaf to 1st node
		<i>Eleusine indica</i>	Goosegrass	2 – 4 leaf stage (before tillering)
		<i>Hordeum murinum</i>	Wild barley	1st leaf to 1st node
		<i>Lolium multiflorum</i>	Annual ryegrass	1st leaf to 1st node
		<i>Panicum schinzii</i>	Sweet Buffalo grass	2 – 4 leaf stage (before tillering)
		<i>Phalaris spp.</i>	Canary grass	1st leaf to 1st node
		<i>Triticum aestivum</i>	Volunteer wheat	1st leaf to 1st node
		<i>Vulpia myuros (1)</i>	Rat's tail fescue	2 – 5 leaf stage
		BROADLEAVES		
		<i>Amaranthus hybridus</i>	Common pig weed	5 – 10 cm height
		<i>Capsella bursa-pastoris</i>	Shephards purse	5 – 10 cm diameter
		<i>Chenopodium album</i>	White goosefoot	5 – 7,5 cm height
		<i>Cleome monophylla</i>	Spindlepod	2 – 6 cm height

WEEDS NORMALLY CONTROLLED BY MOXIMUM™ 40 SL		
WEED	COMMON NAME	MAXIMUM GROWTH STAGE AT APPLICATION
<i>Datura ferox</i>	Large Thorn Apple	3 – 7 cm height
<i>Emex australis</i> (2)	Spiny Emex	5 – 15 cm diameter
<i>Erodium moschatum</i>	Musk heron's bill	5 – 15 cm diameter
<i>Fumaria muralis</i>	Drug fumitory	2 -6 cm diameter
<i>Lepidium spp.</i>	Peppergrass	2 leaf to 150 mm height
<i>Malva parviflora</i>	Small mallow	5 – 15 cm diameter
<i>Oxalis pes-caprae</i>	Yellow sorrel	5 – 10 cm diameter
<i>Oncosiphon suffruticosum</i>	Karoo bush	5 – 12 cm diameter
<i>Polygonum aviculare</i>	Knotweed	5 – 15 cm diameter
<i>Raphanus raphanistrum</i>	Wild radish	5 – 15 cm diameter
<i>Sisymbrium capense</i>	Cape wild mustard	5 – 15 cm diameter

- NOTES:
- At 1200 mL/ha only 75 % control of *Vulpia myuros*.
 - At 1200 mL/ha only 85 % control of *Emex australis*.

**CULTIVAR LIST OF ANNUAL WINTER LEGUME PASTURES ON WHICH MOXIMUM™ 40 SL CAN BE USED.
SEE ALSO GENERAL INFORMATION ABOVE.**

SUBTERRANEAN CLOVER	Karridale*	Seaton Park*
	Mount Barker	Woogenellup*
	Dalkeith*	Nuba*
	Trikkala	Gosse*
	York	Gouldburn*
	Clare	Leura
	June	Denmark
	Nungarin*	Argeles
MEDICS	Caliph	Mogul*
	Cyprus	Parabinga*
	Harbinger	Paraggio
	Jemelong	Santiago*
	RO 1222	Sephi*
	RO 1223	Serena
BERSEEM CLOVER	Sacramonte*	
	Elite	
	Bigbee*	
CLOVER	Balansa*	Sola
	Crimson	Rosedale
	Paradana	Rose
SERADELLA	Pink	
	Madeira*	
	Emena	

* **BOOSTER AS™** is a Registered Trademark of RT Chemicals CC.

* **Clearfield®** is a registered trademark of BASF.