



LINGO®

BELCHIM
C R O P P R O T E C T I O N

Version and date: Version 3 Autumn 2014

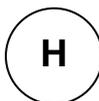
Changes since last version: New reduced buffer zone; Other specific restrictions



This label is compliant with the CPA Voluntary Initiative Guidance.

FORMULATION AND ACTIVE INGREDIENT: A ZC formulation based on a mixture of a capsule suspension (CS) and suspension concentrate (SC) containing 45 g/L clomazone and 250 g/L linuron. A pre-emergence herbicide for the control of annual weeds in potatoes, winter and spring field beans, combining peas and vining peas.

NET CONTENTS: 5L



MAPP No. 16564

UN: 3082

PROTECT FROM FROST

**IMPORTANT INFORMATION
FOR USE ONLY AS AN AGRICULTURAL HERBICIDE**

Crops	Maximum individual dose:	Maximum number of treatments:	Latest time of application:
POTATOES WINTER AND SPRING FIELD BEANS COMBINING PEAS AND VINING PEAS	2 L/ha	One per crop	Pre-crop emergence

Other specific restrictions:

- 1) Non-returnable containers must not be re-used for any purpose
- 2) This product must not be applied via hand-held equipment
- 3) Buffer zones greater than 5m are NOT eligible for buffer zone reduction under the LERAP scheme.
- 4) Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Directorate's website. These operating conditions must be maintained until 30m from the top of the bank of any surface waters.

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.

LINGO® is a registered trademark of Belchim Crop Protection N.V.

The following Aquatic Buffer Zone must be observed:

Crops/situations:	Aquatic buffer zone distance (metres):	Comment:
Combining pea, field bean, potato, vining pea	6	See Environmental Protection Phrases 1 and 2 on product label

<p>DANGER</p>	<p>LINGO</p> <p>ZC formulation based on a mixture of a capsule suspension (CS) and suspension concentrate (SC) containing 45 g/L clomazone and 250 g/L linuron.</p> <p>H351 Suspected of causing cancer H360 Df May damage the unborn child. Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure H410 Very toxic to aquatic life with long lasting effects</p> <p>P260 Do not breathe spray P273 Avoid release to the environment P280 Wear protective gloves, protective clothing/eye protection/face protection P308+P313 If exposed or concerned: Get medical advice/attention P391 Collect spillage P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.</p> <p>EUH401 To avoid risks to human health and the environment, comply with the instructions for use.</p>
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The (COSHH) Control of Substances Hazardous to Health regulations may apply to the use of this product at work.

SAFETY PRECAUTIONS

Operator Protection

- Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:
- WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate or handling contaminated surfaces.
- However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
- WHEN USING DO NOT EAT, DRINK OR SMOKE.
- IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible).
- Avoid exposure – obtain special instructions before use.

Environmental Protection

- To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies as specified for the crop. **HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY.** Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSC Chemicals Regulation Directorate's website. Maintain three star operating conditions until 30m from the top of the bank of any surface water bodies.
- Crops/situations with >5m buffer zone: Since there is risk to aquatic life from use, direct spray from horizontal boom sprayers must not be allowed to fall within the distance specified for the crop of the top of the bank of any static or flowing waterbody or within 1m of the top of a ditch which is dry at the time of application. Spray must be aimed away from water.
- Buffer zones must be measured in accordance with the guidance set out in the booklet 'Local Environment Risk Assessment for Pesticides – Horizontal Boom Sprayers' available from the HSE Chemicals Regulation Directorate's website and any amendments made to it.
- The results of the LERAP must be recorded in written form and must be available for a period of three years for inspection to any person entitled to exercise enforcement powers under or in connection with the Plant Protection Products Regulations 2011 or the Plant Protection Products (Sustainable Use) Regulations 2012. (An electronic record will satisfy the requirement for a written record, providing it is similarly available for inspection and can be copied).
- Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads
- Extreme care must be taken to avoid drift on to non-target plants outside of the target area.
- Avoid release to the environment. Refer to special instructions and safety data sheet.
- **THIS PRODUCT IS NOT ELIGIBLE FOR BUFFER ZONE REDUCTION UNDER THE LERAP HORIZONTAL BOOM SPRAYERS SCHEME**

Storage and Disposal

- This material and its container must be disposed of in a safe way.
- **DO NOT RE-USE CONTAINER** for any purpose.
- Keep away from food, drink and animal feeding stuffs.
- Keep locked up and out of the reach of children.

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.

LINGO is a residual herbicide which can be used on all varieties of potatoes, winter and spring field beans, combining peas and vining peas.

RESTRICTIONS

- **Avoid damage by drift onto non-target crops and plants**
- DO NOT allow drift to come into contact with non-target crops or plants.
- Under certain climatic conditions i.e. hot and humid weather, clomazone has the potential to volatilize and some transient bleaching of non-target crops and other plant species may occur. This transient crop effect is rapidly outgrown and has no long-term effect on plant growth or crop yield.
- The use of drift reducing measures are advised and these include: the use of low drift nozzles (further information can be found in the Voluntary Initiative "Best Practice Guide - Nozzle selection and maintenance" available on the website www.voluntaryinitiative.org.uk); only spray when wind speeds are between 1.2 and 4 miles per hour (Force 1 to 2 according to the Beaufort scale, measured at 10 m above ground); maintain an appropriate boom height and forward speeds.
- Use a spray volume of 250-400 L/ha.

- DO NOT use a spray mixture of LINGO from a spray tank if left standing overnight as this may significantly increase the risk of off-target effects.
- There is a risk to adjacent crops and non-crop vegetation from the volatilization of clomazone. This may result in damage/bleaching to neighbouring vegetation.
- If effects are seen, they must be reported via the Stewardship Program. Please call Belchim Crop Protection for regional support at 01480 403333.
- Do not apply to broadcast crops.
- Some transient crop bleaching may occur under certain climatic conditions and can be severe where heavy rainfall follows application. This transient crop effect is rapidly outgrown and has no effect on crop yield.
- Do not use on soils that are compacted or of a poor structure which may then be liable to water logging.
- Do not apply on light soils if heavy rain is likely within 24 hours of spraying as weed control may be reduced or some crop damage may occur.
- Reduced levels of weed control may occur if application is made to dry cloddy seedbeds or if a prolonged dry period follows application.
- Do not overlap spray swaths.
- Severe crop damage may occur on field beans. Where damage does occur, this is generally transient and should not affect crop yield.
- The safety of LINGO to daughter tubers has not been tested; consult the manufacturer or your advisor before using on seed crops.
- Consult processors before using LINGO on crops grown for processing.

RESISTANCE STRATEGY:

As part of Good Agricultural Practice steps should be taken to adopt a resistance management strategy as standard. LINGO should be alternated or mixed with herbicides with a different mode of action and a similar spectrum of activity. Any subsequent herbicide applications should be made using herbicides with a different mode of action. Repeated use of herbicides with the same mode of action can increase the risk of strains of weeds developing resistance to these compounds, leading to poor control. In order to minimise the risk, a strategy for preventing and managing such resistance should be adopted. This should include use of products with different modes of action and from different chemical groups, in conjunction with effective cropping rotation and cultivation techniques to reduce the reliance on chemical means of control. Further guidance on chemical groups and weed resistance management is available from the Weed Resistance Action Group (WRAG). It is strongly suggested to follow WRAG Guidelines regarding resistance management.

WEED CONTROL

The following weeds are susceptible to LINGO, when applied pre-emergence of the weeds to a moist, firm seedbed free from clods:

Grass weeds :	Annual meadow grass
Broad leaved weeds :	Annual mercury, Black bindweed, Black nightshade, Charlock, Cleavers, Common chickweed, Common field-speedwell, Fat hen, Fool's parsley, Groundsel, Knotgrass, Red dead-nettle, Redshank, Shepherd's purse, Small nettle, Sowthistle, Thorn apple.

TIMING OF APPLICATION

LINGO should be applied as soon as possible after sowing of the crop and before emergence of both crop and target weeds.

Crop plants emerged at the time of application may be severely damaged. In potatoes, LINGO should be applied following the last ridging and before row cracking (i.e. approximately 7 days before expected potato emergence).

DOSE

Apply LINGO at a dose of 2 litres product/ha.

The maximum number of treatments in all crops is one per crop and no more than one per year.

WATER VOLUME AND SPRAY QUALITY

Apply in 250 to 400 L of water per ha as a COARSE spray (as defined in the BCPC system).

SOIL TYPE

Do not use on sandy or very light soils.

Do not use on soils with more than 10% organic matter.

SEED DEPTH / SEEDBED CONDITIONS

It is important for crop safety that the seed is covered by a minimum of 20mm of soil. For optimum efficacy, the seedbed should be firm, level and free of clods. Loose and puffy seedbeds should be consolidated before spraying.

Direct drilled crops should be harrowed across slits to cover the seed before spraying. Where direct drilled crops are treated then ploughing and cultivation to a depth of 15cm must take place before the planting of any subsequent crops.

FOLLOWING CROPS

Do not sow or plant lettuce in the same season as an application of LINGO.

Autumn treated crops: Following normal harvest of an autumn treated crop, cereals, oilseed rape, field beans, combining peas, potatoes, maize, turnip, linseed and sugar beet may be sown. Prior to planting, soil should be ploughed and cultivated to a minimum depth of 15cm.

Spring treated crops: Following normal harvest of a spring treated crop, cereals, oilseed rape, field beans, combining peas, potatoes, maize, linseed, sugar beet and turnip may be sown. Prior to planting, soil should be ploughed and cultivated to a minimum depth of 15cm.

REPLACEMENT CROPS

Autumn treated crops:

In the event of crop failure for any reason, only winter cereals and winter beans may be sown, providing at least six weeks has elapsed since application. In the spring following crop failure, only spring cereals, combining peas, field beans, maize, onion, carrots, potatoes and linseed may be sown. Prior to re-sowing spring cereals, maize, onion, carrots and linseed, a period of at least 7 months should have elapsed since application. Prior to re-sowing combining peas, field beans and potatoes a period of at least six weeks should have elapsed since application. Prior to re-sowing any of the listed replacement crops soil should be ploughed and cultivated to a minimum depth of 25cm.

Spring treated crops:

In the spring following crop failure, only combining peas, field beans, potatoes, maize, dwarf French beans, carrots, sugar beet, onions and linseed may be sown. Prior to re-sowing combining peas, field beans, potatoes, carrots, sugar beet, onion and linseed, a period of at least six weeks should have elapsed since application. Prior to re-sowing maize and dwarf French beans, a period of at least nine weeks should have elapsed since application. For all spring replacement crops, soil should be ploughed and cultivated to a minimum depth of 25cm.

MIXING

Before using LINGO ensure the spray equipment is clean.

1. Half fill the tank with clean water and commence agitation. Add the required dose to the spray tank and complete filling, continuing agitation until spraying is completed.
2. On emptying the container, rinse container thoroughly by using an integrated pressure rinsing device or manually rinsing three times when empty. Add washings to sprayer at time of filling and dispose of container safely.
3. Use immediately. Do not leave spray solution standing in the spray tank.

If using an induction system then mixing should be as follows:

1. Half fill the induction bowl with clean water.
2. Slowly pour the required amount of product into the induction bowl, turn on the pump and suck the contents of the induction bowl into the spray tank, at the same time rinsing the bowl.
3. On emptying the container, rinse container thoroughly by using an integrated pressure rinsing device or manually rinsing three times when empty. Add washings to sprayer at time of filling and dispose of container safely.

4. Repeat the procedure of half filling the bowl with water and sucking out until no trace of product remains on the mesh, filter, drain hole or sides of the bowl.
5. Ensure all contents are sucked out and the bowl is thoroughly rinsed before adding any tank-mix partner.
6. Use immediately. Do not leave spray solution standing in the spray tank.

SPRAY TANK CLEAN OUT

All application equipment and contaminated clothing should be thoroughly washed/cleaned with water diluted detergent solution and rinsed with clean water three times. After each step of washing drain the sprayer, spray out completely. Ensure that all the liquid is removed from the sprayer tank, pump and hoses. Remove nozzles, open tank and drain pump to allow free access of air to all parts of the system. Care should be taken not to rinse contaminated washings from application equipment into waste water channels.

Contaminated cleaning liquids should be disposed of safely according to local regulations. Operators should read the sprayer manufacturer's instructions before beginning to wash out sprayers.

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protection Products Regulations 1995 and provides additional advice on product use at the discretion of the authorisation holder.

NOTICE TO BUYER

All goods supplied by us are of high grade and we believe them to be suitable for any purpose for which we expressly supply them, but as we cannot exercise control over their mixing or use, all conditions and warranties statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use.

WARRANTY

The seller makes no warranty, expressed or implied, with regard to the use of the product other than that indicated on the label. The purchaser and user shall assume all risk associated with use and/or handling and/or the storage of the product, if this use and/or handling and/or storage are carried out contrary to the instructions on the label.

DAMAGES

Buyer's or user's exclusive remedy for damages, breach of warranty, or negligence, shall be limited to the direct damage, and shall not exceed the purchase price of the product, and shall not include any incidental or consequential damages.

TECHNICAL ENQUIRIES:	01480 403333
24 HOUR EMERGENCY NUMBER:	0032 1458 4545

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Weblink: www.belchim.co.uk/pdf/MSDS/Lingo_MSDS.pdf	

LINGO® is a registered trademark of Belchim Crop Protection N.V.

Approval Holder:

BELCHIM CROP PROTECTION N.V./S.A.

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