

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



X-Pand*

Herbicide

ACTIVE CONSTITUENTS: 610 g/Kg ISOXABEN
40 g/Kg FLORASULAM

GROUP K | B HERBICIDE

A water dispersible granule for early post-emergent control of certain broadleaf weeds in barley, triticale and wheat as specified in the Directions for Use.

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DIRECTIONS FOR USE

For Application to Barley, Triticale and Wheat only; from 3 leaf up to 1st node of the crop.

RESTRAINTS

DO NOT apply to crops or weeds which may be stressed due to prolonged periods of extreme cold, moisture stress (water-logging or drought) or previous herbicide treatment, as crop damage or reduced levels of control may result (see bottom of table below for additional comments on barley).

DO NOT use without first reading the section on this label called **PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS** as use of this product will affect your choice of following crops.

DO NOT spray if rain is likely to occur within 3 hours or if heavy rain is likely to occur within 48 hours.

DO NOT apply later than the 1st node stage of the crops.

DO NOT apply by air.

Adjuvant with X-Pand* Herbicide: Always use Uptake Spraying Oil at 0.5% v/v			
WEED	WEED STAGE	RATE (g/ha)	CRITICAL COMMENTS
Wild radish (<i>Raphanus raphanistrum</i>)	Cotyledon to 2 leaf (up to 5 cm across)	165	Only use this rate where some larger weeds are present or the density of weeds is high (see comment below on Wild radish).
Bedstraw (<i>Galium</i> spp.) Capeweed (<i>Arctotheca calendula</i>), Doublegee (<i>Emex australis</i>), Turnip weed (<i>Rapistrum rugosum</i>) Volunteers: Canola (<i>Brassica napus</i>), Lupin (<i>Lupinus albus</i>), Wild radish (<i>Raphanus raphanistrum</i>)		125	Capeweed: May only be suppressed at this rate. To optimise control, use a tank-mix as recommended below. Wild radish: Any survivors must be treated with another management technique or herbicide from a different mode-of-action group to avoid viable seed production. IT Canola – may only be suppressed by X-Pand.
Weeds above + Indian Hedge Mustard (<i>Sisymbrium orientale</i>)		125 + tank-mix partner	Tank-mixes: For improved control, including larger weeds (up to 15 cm), apply X-Pand Herbicide in a tank-mix with MCPA LVE (500 g/L) at 350 - 500 mL/ha or Bromoxynil-MCPA (200 g + 200 g/L) at 350 - 500 mL/ha.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

HARVEST WITHHOLDING PERIOD

BARLEY, TRITICALE and WHEAT: NONE REQUIRED WHEN USED AS DIRECTED.

When using X-Pand Herbicide in a tank mix with another product, observe the Harvest Withholding Period of the other product.

STOCKFOOD WITHHOLDING PERIOD

DO NOT GRAZE OR CUT TREATED CROPS FOR STOCK FEED FOR 6 WEEKS AFTER APPLICATION of X-Pand Herbicide.

When using X-Pand Herbicide in a tank mix with another product, observe whichever Stockfood Withholding Period is the longer.

CROP SAFETY: Barley – While grain yields are unaffected, slight, transient yellowing and growth retardation may occur in some conditions. Crop recovery is usually rapid, but maybe slower if crops are stressed due to prolonged periods of extreme cold, moisture stress (water-logging or drought), nutritional stress, root disease, or previous herbicide treatment.

GENERAL INSTRUCTIONS

MIXING: X-Pand Herbicide should be added to the spray tank with simultaneous agitation. If agitation is limited, premix the X-Pand Herbicide in a bucket before adding to the main tank. Once diluted correctly, X-Pand Herbicide remains in suspension. **If tank mixing with other products, the following order should be followed:**

1. Quarter fill the spray tank, maintaining agitation, then:
2. Add X-Pand Herbicide (as described above)
3. Add water to half fill the spray tank
4. Add wettable powders, suspension concentrates or other water dispersible granules.
5. Add emulsifiable concentrates.
6. Add Uptake® Spraying Oil when spray tank is half-full.
7. Add water to bring to the final spray volume.

COMPATIBILITY

X-Pand Herbicide is compatible with the following:

Broadleaf Herbicides: Bromoxynil-MCPA, MCPA LVE and Lontrel 750SG.

Adjuvant: Always use Uptake Spraying Oil at 0.5% v/v.

APPLICATION

Boom Spraying: Apply X-Pand Herbicide in sufficient water to obtain good coverage. It should be applied by an accurately calibrated ground rig using a water volume of 50 – 100 L/ha. Sprayers should aim to apply medium quality spray in accordance with ASABE standard S-572.

CLEANING SPRAY EQUIPMENT:

After using X-Pand Herbicide, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean any tank, pump, line and nozzle filters.

Partial Cleaning (Rinse only - before using rig to spray barley, triticale and wheat): After cleaning the tank as above, quarter fill the tank with clean water and circulate through the pump, line, hoses and nozzles. Drain and repeat procedure twice.

Complete Cleaning (Decontamination - before using rig to spray crops that are susceptible to X-Pand Herbicide): After cleaning the tank as above, quarter fill the tank with clean water and add a liquid alkali detergent (e.g. Surf®, Omo®, Drive®) at 500 mL/100 L water and circulate throughout the system for at least fifteen minutes. Drain the whole system. Then remove filters and nozzles and clean separately. Finally rinse inside the tank thoroughly using a pressure hose and flush system with clean water and allow to drain. **Note:** If using a concentrated laundry detergent use 250 g (or mL)/100 L water. Do not use chlorine based cleaners.

Rinse water should be discharged onto a designated disposal area or, if this is unavailable, onto unused land away from desirable plants and their roots and watercourses.

RESISTANT WEEDS WARNING

GROUP K | B HERBICIDE

X-Pand Herbicide contains members of the amide (K) and triazolopyrimidine sulfonanilide (B) group of herbicides. The product has the diverse sites and acetolactate synthase (ALS) inhibitor modes of action. For weed resistance management, the product is a Group K + Group B herbicide. Some naturally occurring weed biotypes resistant to the product and other Group K and/or B herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by this product or other Group K or Group B herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Dow AgroSciences accepts no liability for any losses that may result from the failure of the product to control resistant weeds. Strategies to minimise the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant or local Department of Agriculture.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Spraydrift or runoff containing X-Pand Herbicide may result in reduced germination or emergence of non-target plants adjacent to treated areas. DO NOT apply under weather conditions or from spraying equipment that may cause spray to drift onto nearby susceptible plants/crops, cropping lands, pastures or waterbodies.

DO NOT plant a broadleaf crop into areas where X-Pand Herbicide has been used until AFTER the following winter season. As individual crop sensitivity to soil residues may vary, you must check with your field advisor, or Dow AgroSciences representative, before planting any crop following application of this product.

All broadleaf crops are susceptible to carryover residues from X-Pand Herbicide. Crops such as brassicas (including canola), chickpeas, faba beans, field peas and other grain legumes are particularly at risk. Check with your Dow AgroSciences representative before planting any susceptible crop in the seasons following use of X-Pand Herbicide.

Where X-Pand Herbicide residue carryover is suspected and susceptible crops are to be planted, test the treated area as follows:

Field bioassay – where rain allows, plant a small area of the susceptible crop four to six weeks before desired planting date and take note of any symptoms of injury. If any herbicide symptoms are observed, do not plant any broadleaf crop that season.

Pot bioassay – where not practical to do field bioassay, plant a small number of seeds of the susceptible crop into pots containing soil from the treated field. Do this test four to six weeks before desired planting date. If any herbicide symptoms are observed, do not plant any broadleaf crop that season.

Where X-Pand Hercide residue carryover is either suspected or confirmed in plant bioassays only plant a cereal crop.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Overspray or drift to sensitive habitats should be avoided. For ground application a buffer zone of 10 metres is required between the downwind edge of the boom and the closest edge of non-target vegetation or the closest edge of waterbodies.

X-Pand Herbicide is very highly toxic to algae and aquatic plants. DO NOT contaminate streams, rivers or waterways with chemical or used containers. DO NOT spray if rain is likely to occur within 3 hours or if heavy rain is likely to occur within 48 hours.

STORAGE AND DISPOSAL

Store in the tightly closed original container in a securely locked place, out of direct sunlight.

DO NOT store near food, feedstuffs, fertilisers or seed.

Single rinse before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Puncture or shred and bury empty bags in a local authority landfill. If no landfill is available, bury the bags below 500 mm in a disposal pit specifically marked out and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty bags and product should not be burnt.

SMALL SPILL MANAGEMENT

Wear appropriate clothing whilst cleaning up small spills (see SAFETY DIRECTIONS). Sweep up material and contain in a refuse vessel for disposal. Disposal of the contaminated material must be done in accordance with STATE and/or LOCAL regulations.

SAFETY DIRECTIONS

Will irritate the eyes and skin.

Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin.

If product in eyes, wash it out immediately with water.

When opening the container and preparing the spray, wear cotton overalls, over normal clothing, buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.

After each day's use, wash gloves, contaminated clothing and goggles.

Wash hands after use.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. (Phone: Australia 13 11 26)

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet for **X-PAND HERBICIDE** which is available from Dow AgroSciences on request. Call Customer Service Toll Free on 1-800 700 096 or visit www.dowagrosciences.com.au

NOTICE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions, or under off-label permits not endorsed by Dow AgroSciences, or under abnormal conditions.

Made in Japan

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IN A TRANSPORT
EMERGENCY ONLY
DIAL 000
FOR POLICE OR
FIRE BRIGADE

EMERGENCY RESPONSE
(ALL HOURS)
RING FROM ANYWHERE
IN AUSTRALIA
1-800 033 882
(LOCAL CALL FEE ONLY)

