

## CAUTION

KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

NUFARM  
**ARSENAL<sup>®</sup> XPRESS**  
HERBICIDE

**ACTIVE CONSTITUENTS: 150 g/L IMAZAPYR  
present as isopropylamine salt  
150 g/L GLYPHOSATE present as isopropylamine salt**

GROUP **BM** HERBICIDE

For the control of various annual and perennial weeds in non-crop situations  
as indicated in the DIRECTIONS FOR USE table.

READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT.

Contents: 5 Litres  
20 Litres  
110 Litres  
200 Litres

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Tel: (03) 9282 1000  
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APVMA Approval No.: 58867/5L, 20L, 110L, 200L/0306  
Envirodrum Logo [110L only]



NUFARM  
**ARSENAL® XPRESS**  
HERBICIDE

**STORAGE AND DISPOSAL**

**5, 20, 200 L pack**

Store in the closed, original container, in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.

**110 L pack**

Store the original sealed Envirodrum in a cool well ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the Envirodrum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return the empty Envirodrum to the point of purchase. The Envirodrum remains the property of Nufarm Australia Limited.

**SAFETY DIRECTIONS**

Avoid inhaling spray mist. Will irritate the eyes and skin. Avoid contact with eyes and skin. When preparing and using the prepared spray, wear elbow-length PVC gloves and face shield or goggles. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

**FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126 .

**MATERIAL SAFETY DATA SHEET**

For further information refer to the Material Safety Data Sheet (MSDS).

**CONDITIONS OF SALE:**

"Any provisions or rights under the Trade Practices Act 1974 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute."

**In case of emergency: Phone 1800 033 498**

Ask for shift supervisor. Toll free 24 hours.

Batch No:

Date of Manufacture:



For 5L, 20L and 200L

® registered trademark of BASF

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**DIRECTIONS FOR USE**

**RESTRAINT:** DO NOT apply by AIRCRAFT

SITUATION	WEED	RATE	CRITICAL COMMENTS
Around agricultural buildings and other farm non-crop situations, commercial, industrial, and public service areas, rights of way and waste land, away from non-target vegetation.	Annual ryegrass ( <i>Lolium rigidum</i> ) Barnyard grass ( <i>Echinochloa crus-galli</i> ) Blackberry nightshade ( <i>Solanum nigrum</i> ) Blady grass ( <i>Imperata cylindrica</i> ) Buckbush ( <i>Salsola kali</i> ) Deadnettle ( <i>Lamium amplexicaule</i> ) Feathertop Rhodes grass ( <i>Chloris virgata</i> ) Fleabane ( <i>Conyza canadensis</i> ) Hexham scent ( <i>Melilotus indicus</i> ) Liverseed grass ( <i>Urochloa panicoides</i> ) London rocket ( <i>Sisymbrium irio</i> ) Mayne's pest ( <i>Verbena tenuisecta</i> ) Medics ( <i>Medicago</i> spp.) Mintweed ( <i>Salvia reflexa</i> ) Paterson's curse ( <i>Echium plantagineum</i> ) Plains grass ( <i>Stipa aristiglumis</i> ) Prairie grass ( <i>Bromus unioloides</i> ) Prickly lettuce ( <i>Lactuca serriola</i> ) Purple top ( <i>Verbena bonariensis</i> ) Scented top ( <i>Capillipedium</i> spp.) Sedges ( <i>Cyperus</i> spp.) Slender celery ( <i>Apium leptophyllum</i> ) Sowthistle ( <i>Sonchus oleraceus</i> ) St Barnaby's thistle ( <i>Centaurea solstitialis</i> ) Summer grasses ( <i>Digitaria</i> spp.) Thornapples ( <i>Datura</i> spp.) Turnip weed ( <i>Rapistrum rugosum</i> ) Variegated thistle ( <i>Silybum marianum</i> ) Vasey grass ( <i>Paspalum urvillei</i> ) Warrego grass ( <i>Paspalidium jubiflorum</i> ) Wild oats ( <i>Avena</i> spp.) Wild turnip ( <i>Brassica tournefortii</i> ) Wireweed ( <i>Polygonum aviculare</i> )	7 L/ha  Pre- or post-emergence application	<b>Medium Volume:</b> 7 L ARSENAL Xpress should be applied using spray volumes ranging between 50 and 200 L/ha.  <b>High Volume:</b> Apply sufficient spray to wet the surfaces visibly without producing runoff. Measure how much spray is required to cover 10 m x 10 m. Add ARSENAL Xpress at the rate of 70 mL in this measured volume.
	Annual phalaris ( <i>Phalaris minor</i> ) Barley grass ( <i>Hordeum leporinum</i> ) Brome grass ( <i>Bromus</i> sp.) Carpet grass ( <i>Axonopus affinis</i> ) Capeweed ( <i>Arctotheca calendula</i> ) Chickweed ( <i>Stellaria media</i> ) Cobbler's pegs ( <i>Bidens pilosa</i> ) Cocksfoot ( <i>Dactylis glomerata</i> ) Fumitory ( <i>Fumaria</i> sp.) Ground cherry ( <i>Phyalis ixocarpa</i> ) Lesser swinecress ( <i>Coronopus didymus</i> ) Paradoxa grass ( <i>Phalaris paradoxa</i> ) Pigweed ( <i>Portulaca oleracea</i> ) Saffron thistle ( <i>Carthamus lanatus</i> ) Silver grass ( <i>Vulpia</i> sp.) Sub clover ( <i>Trifolium subterranean</i> ) Spear thistle ( <i>Cirsium vulgare</i> ) Spiny burrgrass ( <i>Cenchrus incertus</i> ) Spiny emex ( <i>Emex australis</i> ) Winter grass ( <i>Poa annua</i> ) Yorkshire fog ( <i>Holcus lanatus</i> )	7 L/ha  Post-emergence application only	
	Bokhara clover ( <i>Melilotus albus</i> ), Bracken (suppression only) ( <i>Pteridium esculentum</i> ), Capeweed ( <i>Arctotheca calendula</i> ), Couch ( <i>Cynodon dactylon</i> ), Docks ( <i>Rumex</i> spp.), Johnson grass ( <i>Sorghum halepense</i> ), Panics (suppression only) ( <i>Panicum</i> spp.), Paspalum ( <i>Paspalum dilatatum</i> ), Queensland bluegrass ( <i>Dichanthium sericeum</i> ), Stinging nettle ( <i>Urtica incisa</i> )	10 L/ha  Pre- or post-emergence application	<b>Medium Volume:</b> 10 L ARSENAL Xpress should be applied using spray volumes ranging between 50 and 200 L/ha.  <b>High Volume:</b> Apply sufficient spray to wet the surfaces visibly without producing runoff. Measure how much spray is required to cover 10 m x 10 m. Add ARSENAL Xpress at the rate of 100 mL in this measured volume.

SITUATION	WEED	RATE	CRITICAL COMMENTS
Irrigation channels – Only supply channels and tail drains which are lockable or which lead to recirculation dams or settling ponds	Barnyard grass ( <i>Echinochloa crus-galli</i> ), Bathurst burr ( <i>Xanthium spinosum</i> ) Bellvine ( <i>Ipomoea plebia</i> ) Bladder Ketmia ( <i>Hibiscus trionum</i> ) Brown beetle grass ( <i>Diplachne fusca</i> ) California burr ( <i>Xanthium orientale</i> ) Caltrop ( <i>Tribulus terrestris</i> ) Couch grass ( <i>Cynodon dactylon</i> ) Cumbungi ( <i>Typha</i> spp.) Gooseberry ( <i>Physalis viscosa</i> ) Johnson grass ( <i>Sorghum halepense</i> ) Liverseed grass ( <i>Urochloa panicoides</i> ) Mintweed ( <i>Salvia reflexa</i> ) Noogoora burr ( <i>Xanthium pungens</i> ) Nutgrass ( <i>Cyperus rotundus</i> ) <i>Paspalum</i> spp. Pumpkin vine ( <i>Operculina brownii</i> ) Rosella ( <i>Hibiscus heterophyllous</i> ) Sesbania pea ( <i>Sesbania brachycarpa</i> ) Sow thistle ( <i>Sonchus arvensis</i> ) Spider grass ( <i>Brachyachne convergens</i> ) Summer grass ( <i>Digitaria ciliaris</i> ) Thornapple ( <i>Datura</i> spp.) Turnip weed ( <i>Rapistrum rugosum</i> ) Volunteer cereals Camel melon ( <i>Citrullus lanatus</i> ) Wireweed ( <i>Polygonum aviculare</i> )	5 L/ha  Pre- or post-emergence application	Apply during the non-crop season and when the channel is not in use. Drain channels prior to treatment. Applications in early autumn (March) to channels with minimal weed growth will give best performance. ARSENAL Xpress should NOT be applied more than once per annum to the same channel. Apply only to irrigation delivery and recirculation channels which are lockable or which may be flushed to a recirculation dam or settling pond Apply only to exposed irrigation channels.  DO NOT apply to water. DO NOT apply in areas where soil may be moved into the field either through cultivation or water movement. DO NOT apply to irrigation channels in situations where there is a risk of soil or silt movement or water run-off leading to ARSENAL Xpress entering irrigation water. DO NOT apply ARSENAL Xpress to flooded or saturated soil.  If the entire (empty) channel surface is to be treated, delay reuse of the channel for as long as possible (at least 6 weeks) for ARSENAL Xpress to adsorb to soil particles. Then:
	Annual Ryegrass ( <i>Lolium rigidum</i> ) Amaranth ( <i>Amaranthus</i> sp.) Barley grass ( <i>Hordeum leporinum</i> ) Capeweed ( <i>Arctotheca calendula</i> ) Cobbler's pegs ( <i>Bidens pilosa</i> ) Deadnettle ( <i>Lamium amplexicaule</i> ) Fumitory ( <i>Fumaria</i> sp.) Ground cherry ( <i>Physalis ixocarpa</i> ) Lesser swinecress ( <i>Coronopus didymus</i> ) Paradoxa grass ( <i>Phalaris paradoxa</i> ) Patersons Curse ( <i>Echium plantagineum</i> ) Pigweed ( <i>Portulaca oleracea</i> ) Saffron thistle ( <i>Carthamus lanatus</i> ) Silver grass ( <i>Vulpia</i> sp.) Spear thistle ( <i>Cirsium vulgare</i> ) Spiny emex ( <i>Emex australis</i> ) Variegated thistle ( <i>Silybum marianum</i> )	5 L/ha  Post-emergence application only	<b>If the channel is lockable</b> , fill it with water and leave undisturbed for four days before releasing the water and allowing irrigation water to flow through the channel; or <b>If the system includes a recirculation dam or settling pond</b> , flush with water, returning flushing water to a settling pond, before allowing irrigation water to flow through the channel. DO NOT apply where flushing water cannot be disposed of safely on-farm. Water from the initial flushing of treated channels must be retained on-farm.  To avoid the risk of drift damage, application should NOT be made to channel banks at a time when susceptible crops are in the direct vicinity. Applications should NOT be undertaken when wind is blowing towards crops.  For boom sprays, apply in 50 to 200 L water/ha. For high volume eg hand guns, measure how much spray volume is required to cover 10 m x 10 m and add ARSENAL Xpress at the rate of 50 mL in this measured volume. Apply to wet surfaces visibly, without producing run-off.  REFER TO "PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS" SECTION OF LABEL.

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

**WITHHOLDING PERIOD**

**DO NOT GRAZE OR CUT FOR STOCK FEED, VEGETATION WHICH HAS BEEN TREATED WITH ARSENAL XPRESS FOR 7 WEEKS.**

### GENERAL INSTRUCTIONS

Nufarm ARSENAL Xpress is an aqueous formulation of two active constituents which will kill a range of standing weeds and emerging seedlings. It stops growth rapidly, although symptoms may take over 30 days to develop. Affected plants are discoloured and often growth is distorted.

The active material in ARSENAL Xpress is rapidly absorbed through foliage and translocated throughout plants. The active ingredient providing residual control (imazapyr) is also rapidly absorbed through roots, and translocated throughout plants.

For pre-emergence control, rain or irrigation after spraying is required to activate ARSENAL Xpress.

Where indicated in the "Rate" column, "Pre- or post-emergence application", foliage treatments will provide pre-emergence control as the active material is released to the soil following plant decay. Application should give 6 months effective weed control. Residual control will be reduced by denser standing weed growth and higher amounts of ground cover.

### RESISTANT WEEDS WARNING

#### GROUP **B** & **M** HERBICIDE

Nufarm ARSENAL Xpress Herbicide is a member of the imidazolinone and glycine groups of herbicides. ARSENAL Xpress has the inhibition of acetolactate synthase (ALS) and inhibition of EPSP modes of action. For weed resistance management, ARSENAL Xpress is a Group B and M herbicide. Some naturally occurring weed biotypes resistant to ARSENAL Xpress and other Group B and M 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 ARSENAL Xpress or other Group B and M herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Nufarm Australia Ltd. accepts no liability for any losses that may result from the failure of ARSENAL Xpress to control resistant weeds.

### APPLICATION

Faster control of standing weeds will result if growing conditions are favourable at and after application. Rainfall within two hours of the spray mixture drying on leaves may result in reduced weed control.

### SPRAYING INSTRUCTIONS

For medium volume spraying, apply through a spray boom calibrated to ensure even coverage. Use spray nozzles suitable to prevent spray drift onto surrounding non-target vegetation.

For high volume application, use a hand gun or knapsack to apply sufficient spray to wet the surface visibly without producing run-off.

### MIXING

Pour the required amount of ARSENAL Xpress into a spray container which already holds the total amount of water required. Mix thoroughly. If ARSENAL Xpress is added during filling, foaming may occur. If excessive foaming is a problem, add a suitable antifoaming agent. Consult your distributor for specific information.

The product is corrosive to mild steel. Use ONLY stainless steel, fibreglass, plastic or plastic-lined containers for mixing, storage and application.

### EQUIPMENT CLEAN-UP

Thoroughly flush all spray equipment with water following the use of ARSENAL Xpress and before use with other products.

### COMPATIBILITY

For faster knockdown of weeds, certain other herbicides may be mixed with ARSENAL Xpress Herbicide.

ARSENAL Xpress is compatible with glyphosate-based products.

Bipyridyl herbicides (eg. paraquat) are NOT compatible with ARSENAL Xpress. Mixtures of this type will result in poor weed control.

### PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures, or non-target aquatic areas. DO NOT apply on or near non-target trees or other plants or in areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. DO NOT apply where run-off water may flow onto agricultural land or other non-target vegetated areas. Dispose of washings away from non-target plants and their roots.

### PROTECTION OF LIVESTOCK

Low hazard to bees - may be applied to plants at any time.

### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.



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