

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

FREQUENCY[®] HERBICIDE

ACTIVE CONSTITUENT: 60 g/L TOPRAMEZONE
60 g/L CLOQUINTOCET-MEXYL
SOLVENT: 320 g/L LIQUID HYDROCARBONS

GROUP **H** HERBICIDE

For the control of certain broadleaved weeds including wild radish and suppression of wild oats in winter cereals as indicated in the Directions for Use table.

IMPORTANT: READ THIS LEAFLET BEFORE USING THIS PRODUCT

CONTENTS: 5L, 10L, 15L, 20L, 110L, 1000L

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APVMA Approval No.: 86267/115160

DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply by aircraft

DO NOT apply after the 2-node stage (Z32)

DO NOT apply to crops that are stressed through disease, insect damage, frost, nutrient deficiencies, other herbicide use, excessively moist or dry conditions, or inappropriate soil type

DO NOT apply if rain is expected within 2 hours

DO NOT apply more than 1 application per season

DO NOT apply if heavy rains or storms are forecast within 3 days.

DO NOT irrigate to the point of runoff for at least 3 days after application.

Spray Drift Restraints

DO NOT apply with spray droplets smaller than a **MEDIUM** spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the British Crop Production Council guideline.

DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour, as measured at the application site.

DO NOT apply during surface temperature inversion conditions at the application site.

Users of this product **MUST make an accurate written record** of the details of each spray application within 24 hours following application, and must **KEEP** this record for at least 2 years. The spray application details that must be recorded are:

1. date with start and finish times of application
2. location address and paddock(s) sprayed
3. full name of this product
4. amount of product used per hectare and number of hectares applied to
5. crop or situation and weed or pest
6. wind speed and direction during application
7. air temperature and relative humidity during application
8. nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application
9. name and address of person applying this product. (Additional record details may be required by the state or territory where this product is used.)

MANDATORY NO-SPRAY ZONES

NO-SPRAY ZONE FOR PROTECTION OF INTERNATIONAL TRADE

DO NOT apply if there are livestock, pasture or any land that is producing feed for livestock within 120 metres downwind from the application area.

NO-SPRAY ZONES FOR PROTECTION OF THE TERRESTRIAL ENVIRONMENT

DO NOT apply if there are sensitive crops, gardens, landscaping vegetation, protected native vegetation or protected animal habitat within 10 metres (tank mix with bromoxynil) or 20 metres (tank mix with MCPA) downwind from the application area.

| CROP | WEEDS | WEED STAGE | RATE | CRITICAL COMMENTS |
|--------------------------|---|------------------------|---|---|
| Wheat Barley Durum | Wild radish (<i>Raphanus raphanistrum</i>) | Up to the 6-leaf stage | 200 mL/ha + 900 mL/ha to 1.2 L/ha Bromicide®* 200 Selective Herbicide (200 g/L bromoxynil product) + 1% Hasten or similar MSO adjuvant | Apply to actively growing weeds, free from stress. Use the higher rate of bromoxynil under high populations and where conditions are less than ideal such as climatic stress or plant shading. Apply to crops from the 2-leaf stage (Z12) but prior to the 2-node stage (Z32). |
| | Bifora (<i>Bifora testiculata</i>), Bindweed/buckwheat (<i>Fallopia convolvulus</i>), Capeweed (<i>Arctotheca calendula</i>), Charlock (<i>Sinapsis arvensis</i>), Deadnettle (<i>Lamium amplexicaule</i>), Fleabane (<i>Conyza</i> spp.), Fumitory (<i>Fumaria</i> spp.), Pimpernel (<i>Anagallis arvensis</i>), Shepherd's purse (<i>Capsella bursa-pastoris</i>), Sow thistle/milk thistle (<i>Sonchus oleraceus</i>), Stinging nettle (<i>Urtica dioica</i>), Subterranean Clover (<i>Trifolium subterraneum</i>), Tares/vetch (<i>Vicia sativa</i>), Turnip weed (<i>Rapistrum rugosum</i>), Wireweed (<i>Polygonum aviculare</i>) | Up to the 6-leaf stage | 200 mL/ha + 900 mL/ha to 1.2 L/ha Bromicide®* 200 Selective Herbicide (200 g/L bromoxynil product) + 1% Hasten or similar MSO adjuvant | Transient bleaching of the crop may occur, particularly under cold or frosty conditions and can be exacerbated in northern areas where frost/cold starts followed by warm bright sunlight days follow. Trial data has shown that under these conditions final yield will not be impacted. |

| CROP | WEEDS | WEED STAGE | RATE | CRITICAL COMMENTS |
|--------------------------|--|--------------------------------------|---|--|
| Wheat Barley Durum | Deadnettle (<i>Lamium amplexicaule</i>), Fumitory (<i>Fumaria</i> spp.), Shepherd's purse (<i>Capsella bursa-pastoris</i>), Sow thistle/milkthistle (<i>Sonchus oleraceus</i>), Stinging nettle (<i>Urtica urens</i>), Turnip weed (<i>Rapistrum rugosum</i>), Wild radish (<i>Raphanus raphanistrum</i>), Wireweed (<i>Polygonum aviculare</i>) | Up to the 6-leaf stage | 200 mL/ha + 440 mL to 600 mL/ha Polo®* 570 LVE Herbicide (570 g/L L.V.E MCPA product) + 1% Hasten or similar MSO adjuvant | Apply to actively growing weeds, free from stress. Use the higher rate of MCPA LVE under high populations and where conditions are less than ideal such as climatic stress or plant shading. Apply to crops from the 3-leaf stage (Z13) but prior to the 2-node stage (Z32). Transient bleaching of the crop may occur, particularly under cold or frosty conditions and can be exacerbated in northern areas where frost/cold starts followed by warm bright sunlight days follow. Trial data has shown that under these conditions final yield will not be impacted. |
| Wheat Barley Durum | Suppression of seed set in wild oats in northern NSW and Qld cropping zones where <i>Avena sterilis</i> is dominant in targeted population | From 2 leaf to 2 tillers (GS 12- 22) | 200 mL/ha + 900 mL/ha to 1.2 L/ha Bromicide®* 200 Selective Herbicide (200 g/L bromoxynil product) + 1% Hasten or similar MSO adjuvant | Frequency® Herbicide will provide useful suppression of seed set in wild oats. Apply to actively growing weeds, free from stress. Apply to crops from the 2-leaf stage (Z12) but prior to the 2-node stage (Z32). Significant bleaching and reduction of growth of wild oats will occur, resulting in death of some plants and a significant reduction in flowering and seed set of surviving plants, however complete control of wild oats may not be seen. Trials have shown that consistency of seed set reduction on wild oats in southern regions where <i>Avena fatua</i> is dominant have been greatly reduced compared to fields in the northern cropping area where <i>Avena sterilis</i> is dominant. Where wild oats are a major target either a split application or tank mix with a compatible wild oat control product is recommended Transient bleaching of the crop may occur, particularly under cold or frosty conditions and can be exacerbated in northern areas where frost/cold starts followed by warm bright sunlight days follow. Trial data has shown that under these conditions final yield will not be impacted. |

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

WITHHOLDING PERIOD

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED

GRAZING: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 6 WEEKS AFTER APPLICATION. WHEN APPLYING WITH A TANK MIX PRODUCT, OBSERVE THE GRAZING WITHHOLDING PERIOD FOR THE TANK MIX PRODUCT IF THIS IS LONGER THAN 6 WEEKS

EXPORT SLAUGHTER INTERVAL (ESI) 14 DAYS

Livestock that has grazed on or been fed treated crops should be placed on clean feed for 14 days prior to slaughter.

GENERAL INSTRUCTIONS

FREQUENCY® Herbicide is a post-emergence, contact foliar-absorbed herbicide and will not control weeds which emerge after application. FREQUENCY® Herbicide will provide rapid bleaching of the target weeds. When mixed with bromoxynil according to the label, this additional activity will lead to rapid burning of target weeds. Both FREQUENCY® Herbicide and bromoxynil are light activated herbicides. Faster and more complete activity will be seen in higher light conditions. Due to the contact nature of FREQUENCY® Herbicide applications early in the season where better coverage is possible will result in better control. In some instances, complete control of weeds may not be seen, however a significant reduction in biomass will be observed and weeds will likely be uncompetitive with the crop.

To ensure thorough weed coverage, FREQUENCY® Herbicide should be applied in a minimum of 80L/ha water.

MIXING

Half fill the spray tank with clean water. Commence agitation and add the required amount of product to the tank. Maintain agitation whilst filling the tank and throughout the spraying operation.

FREQUENCY® Herbicide is a suspo-emulsion formulation. When using in a tank mix with other herbicides the following mix order should be observed;

1. half fill the spray tank;
2. add any granule (WG) formulated products first and allow dispersion, followed by any suspension concentrates (SC/flowable);
3. add any water-soluble salts;
4. add FREQUENCY® Herbicide and any EC formulations;
5. add any adjuvants as recommended.

Adjuvants

FREQUENCY® Herbicide requires the use of an MSO type adjuvant such as Hasten to allow better uptake into the target weed for full efficacy. Use of non-ionic surfactants and mineral oil based adjuvants will likely result in reduced efficacy.

APPLICATION

Ground application: Apply in 80-150 L of water per hectare using a nozzle that will deliver a MEDIUM spray quality as defined by ASAE S572 Standard. The use of flat fan, air induction nozzles is recommended. In

advanced or dense weed infestations and/or dense crop canopies, increase the water volume to ensure adequate coverage.

RE-ENTRY PERIOD

Do not allow entry into treated areas until spray has dried. If prior entry is necessary wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

COMPATIBILITY

FREQUENCY® Herbicide is physically compatible with Axial®, Bromoxynil (including Bromicide® 200 Selective Herbicide, Bronco® 200 Herbicide, Genfarm Bromo 200 Herbicide, Titan Bromoxynil 200 Selective Herbicide), MCPA L.V.E (including Polo® 570 LVE Herbicide, Nufarm LVE Agritone® Selective Herbicide, Genfarm MCPA LV 570 Herbicide, Titan LVE MCPA 570 Herbicide, Adama MCPA LVE 570 EC Herbicide), Metsulfuron (Ally®, Associate®), Jaguar®, Sencor® 480 SC, Tigrex® and Topik® 240 EC.

| Product Use | Mix Partner Product | Comments |
|---|--|---|
| FREQUENCY® Herbicide | Ally®, Associate® 600g/kg Metsulfuron | Observe use restrictions and plant back comments on mix partner labels. |
| + Bromoxynil (200g/L bromoxynil as N-octanoyl ester) | Tigrex® 250g/L MCPA as 2-ethylhexyl ester + 25g/L diflufenican | Mixtures with picolinofen or diflufenican may cause increased foliar burn, however crop yield will not be adversely affected. |
| | Sencor® 480 480g/L metribuzin | |
| + Hasten Adjuvant | Topik® 240 240g/L clodinafop-propargyl + 60g/L cloquintocet | |
| | Axial® 100g/L pinoxaden + 25g/L cloquintocet | |
| | MCPA L.V.E 570 g/L L.V.E MCPA | |
| | Opera® Fungicide 85g/L pyraclostrobin + 62.5g/L epoxiconazole | |
| | PropiMax® Fungicide 435g/L propiconazole | |
| | Liquid urea ammonium nitrate fertilizer (UAN) (Easy N®) | |

| Product Use | Mix Partner Product | Comments |
|--|---|---|
| FREQUENCY® Herbicide + MCPA (L.V.E) - (570g/L MCPA as 2-ethylhexyl ester) + Hasten Adjuvant | Ally®* , Associate®* 600g/kg Metsulfuron | Observe use restrictions and plant back comments on mix partner labels. |
| | Jaguar®* 25g/L diflufenican + 250g/L Bromoxynil present as the octanoate | Mixtures with picolinofen or diflufenican may cause increased foliar burn, however crop yield will not be adversely affected. |
| | Sencor®* 480 480g/L metribuzin | |
| | Topik®* 240 240g/L clodinafop-propargyl + 60g/L cloquintocet | |
| | Axial®* 100g/L pinoxaden + 25g/L cloquintocet | |
| | Bromoxynil 200g/L Bromoxynil | |
| | Opera® Fungicide 85g/L pyraclostrobin + 62.5g/L epoxiconazole | |
| | PropiMax®* Fungicide 435g/L propiconazole | |
| | Liquid urea ammonium nitrate fertilizer (UAN) (Easy N®*) | |

As water quality can influence compatibility, it is recommended that mixtures should be bottle-tested in the water intended for spraying, prior to mixing commercial quantities.

CROP SAFETY

DO NOT apply to crops undersown with legumes and other broadleaf fodder.

Following application, some transient bleaching (white spotting and/or mottling) of cereal foliage may occur especially with high light activity on young crops. This bleaching is confined to leaves present at application. The development of the crop and subsequent new growth is unaffected in crops growing free of stress. Symptoms will be more pronounced and persistent in crops that are growing under stress, particularly under frost conditions (see Restraints).

SPRAYER CLEANUP

Following use, the sprayer should be cleaned before spraying sensitive broadleaf crops. Empty the tank completely and drain the whole system. Quarter fill the tank with clean water directing stream onto inside of tank. Circulate through the pump, the hoses and nozzles then drain. Repeat if necessary. Finally remove and clean all filters (tank, in-line and nozzle) separately. This will provide an effective cleaning technique for FREQUENCY® Herbicide. A boom cleaner may be used as part of the procedure.

HERBICIDE RESISTANCE WARNING

| | | |
|--------------|----------|------------------|
| GROUP | H | HERBICIDE |
|--------------|----------|------------------|

FREQUENCY® Herbicide is a member of the benzoylpyrazole group of herbicides and acts by inhibiting 4-hydroxyphenylpyruvate dioxygenase (4-HPPD). For weed resistance management FREQUENCY® Herbicide is a Group H herbicide. Some naturally occurring weed biotypes resistant to this product and other Group H 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 H herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, BASF Australia Limited accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

Resistance Management

Management of weed resistance to Group H herbicides is important to maintain this critical mode of action for broadleaf weed control and particularly for wild radish control. Where possible, FREQUENCY® Herbicide should be used as a part of an integrated weed management program which includes herbicides from other modes of action and non-chemical methods. CropLife resistance management strategies are available from BASF sales representatives and from CropLife at www.croplife.com.au.

CROP PLANT BACK & ROTATION RECOMMENDATIONS

FREQUENCY® Herbicide does not provide long-term residual activity; however, certain crops show sensitivity to soil residues. Refer to the following table for application-to-sow intervals applicable to the maximum label rate.

| Plant Back Interval | 6 weeks after FREQUENCY® Herbicide application | 4 months after FREQUENCY® Herbicide application | 9 months after FREQUENCY® Herbicide application |
|---------------------|--|--|---|
| Crop | Wheat (including durum) Barley Maize | Canola Chickpeas Faba beans Field peas Lentils Lupins Mungbeans Safflower Sorghum Sunflower Cotton | All other crops |

Check the label of any product mixed with FREQUENCY® Herbicide, to determine any plant back periods or restrictions on use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.

STORAGE

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.

DISPOSAL

5L, 10L, 15L, 20L

Triple-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 deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

110L

Empty container by pumping through the dry break Micro Matic connection system. DO NOT attempt to unscrew the Micro Matic valve or breach the locked filling point. DO NOT contaminate the container with water or other foreign material. Ensure that the Micro Matic coupler, pump, meter and hoses are disconnected, triple rinsed with clean water and drained after each use. When empty, or contents no longer required, return the container to the point of purchase. DO NOT dispose of undiluted chemicals on-site.

SAFETY DIRECTIONS

Harmful if inhaled. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. Do not inhale vapour. If product on skin immediately wash area with soap and water. If product in eyes, wash it out immediately with water. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow length chemical resistant gloves and face shield or goggles. If applying by boomspray equipment (open cab) wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Wash hands after use. After each day 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; New Zealand 0800 764 766.* If swallowed, do NOT induce vomiting.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet available from your supplier.

CONDITIONS OF SALE

All conditions and warranties rights and remedies implied by law or arising in contract or tort whether due to the negligence of BASF Australia Ltd or otherwise are hereby expressly excluded so far as the same may legally be done provided however that any rights of the Buyer pursuant to non-excludable conditions or warranties of the Competition and Consumer Act 2010 or any relevant legislation of any State are expressly preserved but the liability of BASF Australia Ltd or any intermediate Seller pursuant thereto shall be limited if so permitted by the said legislation to the replacement of the goods sold or the supply of equivalent goods and all liability for indirect or consequential loss or damage of whatsoever nature is expressly excluded. This product must be used or applied strictly in accordance with the instructions appearing hereon. This product is solely sold for use in Australia and must not be exported without the prior written consent of BASF Australia Ltd.

FREQUENCY HERBICIDE

60 g/L TOPRAMEZONE

60 g/L CLOQUINTOCET-MEXYL

320 g/L LIQUID HYDROCARBONS

HAZARD STATEMENT:

May be fatal if swallowed and enters airways. May damage the unborn child. Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT:

If medical advice is needed, have product container or label at hand.

PRECAUTIONARY STATEMENTS (Prevention):

Store locked up.

PRECAUTIONARY STATEMENTS (Response):

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. If skin irritation occurs: Get medical advice/attention.

APVMA Approval No: 86267/115160

Batch No:

Date of Manufacture:

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**FOR SPECIALIST ADVICE IN AN EMERGENCY ONLY PHONE 1800 803 440 TOLL FREE-ALL HOURS-
AUSTRALIA WIDE**