

# POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# Barometer<sup>®</sup>

Herbicide

ACTIVE CONSTITUENTS: 200 g/L BROMOXYNIL present as the N-OCTANOYL ESTER

200 g/L MCPA present as the ETHYL HEXYL ESTER

SOLVENT: 343 g/L LIQUID HYDROCARBON

|       |          |          |           |
|-------|----------|----------|-----------|
| GROUP | <b>C</b> | <b>I</b> | HERBICIDE |
|-------|----------|----------|-----------|

For the control of weeds in wheat, oats, barley, cereal rye, triticale, linseed, grass pastures and turf as per the Directions for Use Table

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

**DIRECTIONS FOR USE**

**RESTRAINTS**

DO NOT spray if weeds are wilted by dry or cold weather or if crops are at a susceptible stage, or if rain is likely within 4 hours.

DO NOT apply if frosts are imminent.

DO NOT apply to diseased or frost affected crops or turf.

| CROP   | WEEDS   | WEED STAGE  | STATE   | RATE / ha                            | CRITICAL COMMENTS   |        |
|--|---|---|---|--------------------------------------|---|--------|
| Wheat, Barley, Cereal Rye, Oats and Triticale; Linseed; Grass Pastures                           | Amsinckia ( <i>Amsinckia</i> spp.), Capeweed ( <i>Arctotheca calendula</i> ), Chamomile ( <i>Matricaria matricarioides</i> ), Charlock ( <i>Sinapis arvensis</i> ), Corn Gromwell (Ironweed, Sheepweed) ( <i>Buglossoides arvensis</i> ), Fat Hen ( <i>Chenopodium album</i> ), Field Madder ( <i>Sherardia arvensis</i> ), Hexham Scent (King Island Melilot) ( <i>Melilotus indica</i> ), Horned Poppy ( <i>Glaucium flavum</i> ), Indian Hedge Mustard ( <i>Sisymbrium orientale</i> ), Lesser Swinecress ( <i>Coronopus didymus</i> ), Mexican Poppy ( <i>Argemone ochroleuca</i> ), Mintweed ( <i>Salvia reflexa</i> ), Paterson's Curse (Salvation Jane) ( <i>Echium plantagineum</i> ), Rough Poppy ( <i>Papaver hybridum</i> ), Saffron Thistle ( <i>Carthamus lanatus</i> ), Shepherd's Purse ( <i>Capsella bursa-pastoris</i> ), Slender Thistles ( <i>Carduus tenuiflorus</i> , <i>C. pycnocephalus</i> ), Tree Hogweed ( <i>Polygonum patulum</i> ), Turnip Weed (Giant Mustard) ( <i>Rapistrum rugosum</i> ), Wild Radish ( <i>Raphanus raphanistrum</i> ), Wild Turnip ( <i>Brassica tournefortii</i> ) | Plants up to 6 leaf stage but not > 50 mm diam.   | WA only   | 750 mL                               | <b>CROP STAGE:</b><br><b>Wheat, Barley, Cereal Rye, Oats and Triticale:</b> 3 leaf to fully tillered stage (Zadok Scale Z13-30) for rates of 750 mL to 1.4L/ha; 5 leaf to fully tillered stage (Z15-30) for rate of 2.0 L/ha (NSW, ACT, Vic, Tas, SA, WA only); or early tillering to fully tillered stage (Z21-30) (Qld only).<br><b>Linseed:</b> 50 to 150 mm high.<br>DO NOT apply to Linseed by aircraft.<br>* If spraying Black Bindweed when wheat, barley, cereal rye, oats, triticale or linseed is more than 300 mm high, increase spray volume to 200 L/ha. For optimal control, apply only when the weeds are actively growing. In the early stages following spraying, temporary wilting of crop and pasture may occur. Crop scorch may occur, particularly on oats if treatment is delayed to later stages of growth. Refer to the General Instructions. Avoid application when maximum daily temperatures above 20°C occur, or are likely to occur for a few days after application. DO NOT apply to crops or pastures undersown with lucerne, clover or medics unless some damage is acceptable. |        |
|  |   | Plants up to 8 leaf stage but not >75 mm diam.  | Qld, NSW, ACT, Vic, Tas, SA, NT only            | 1.4 L                                |   |        |
|  |   |   | WA only   | 2.0 L                                |   |        |
|  |   |   | WA only   | 1.4 L                                |   |        |
|  |   | Black Bindweed* (Climbing Buckwheat) ( <i>Fallopia convolvulus</i> ), Common Peppergrass ( <i>Lepidium africanum</i> ), Mustards ( <i>Sisymbrium</i> spp.), Purple Calandrinia ( <i>Calandrinia menziesii</i> ) | Plants up to 4 leaf stage but not >35 mm diam.  |                                      |   | 1.0 L  |
|  |   |   | Plants up to 6 leaf stage but not >50 mm diam.  | All States                           |   | 1.4 L  |
|  |   |   | Plants up to 8 leaf stage but not >75 mm diam.  |                                      |   | 2.0 L  |
|  |   | Fumitory ( <i>Fumaria</i> spp.), Three Cornered Jack (Doublegee, Spiny Emex) ( <i>Emex australis</i> )  | Plants up to 3 leaf stage but not >50 mm diam.  | Qld, NSW, ACT, Vic, Tas, SA only     |   | 1.4 L  |
|  |   |   | Plants up to 4 leaf stage but not >60 mm diam.  | WA only                              |   | 750 mL |
|  |   |   | Plants up to 5 leaf stage but not >75 mm diam.  | Qld, NSW, ACT, Vic, Tas, SA, NT only |   | 2.0 L  |
|  |   |   | Plants up to 6 leaf stage but not > 85 mm diam. | WA only                              |   | 1.4 L  |
|  |   | Variegated Thistle ( <i>Silybum marianum</i> ), Wireweed (Hogweed)** ( <i>Polygonum aviculare</i> )   | Plants up to 4 leaf stage but not > 35 mm diam. |                                      |   | 750 mL |
|  | Plants up to 6 leaf stage but not > 50 mm diam.   | Qld, NSW, ACT, Vic, Tas, SA, NT only  | 1.4 L   |                                      |   |        |
|  |   | WA only   | 2.0 L   |                                      |   |        |
| Mountain Sorrel ( <i>Oxalis acetosella</i> ), Three-horned Bedstraw ( <i>Galium tricomutum</i> ) | Plants up to 6 leaf stage   |   | 1.4 L   |                                      |   |        |
|  | Plants up to 8 leaf stage   |   | 750 mL  |                                      |   |        |
| Cleavers ( <i>Galium aparine</i> )   | 2-4 stem stage and 1-3 whorls of leaves per stem  |   | 1.4 L   |                                      |   |        |
|  |   |   | 750 mL  |                                      |   |        |

| CROP & SITUATION  | WEEDS   | WEED STAGE     | STATE                  | RATE / ha  | CRITICAL COMMENTS   |
|---|---|----------------|------------------------|--|---|
| Wheat, Barley, Cereal Rye, Oats, Triticale  | Common Sowthistle ( <i>Sonchus oleraceus</i> )  |                |                        |  | Apply under good growing conditions. Avoid spraying when soil is dry. DO NOT spray under frosty conditions. In early stages following spraying, temporary wilting of crop may occur. Avoid application when maximum daily temperatures above 20°C or are likely to occur for a few days after application. DO NOT apply to crops undersown with lucerne, clover or medics unless some damage is acceptable. |
|   |   | Up to 4 leaves | Qld, Northern NSW only | 1.4 L  | <b>Crop stages - Wheat, Barley, Oats, Triticale:</b> 3 leaf to full tillering (Z13-30). Use as early as possible to avoid shading of weeds by the crop. Strictly for use on small weeds early in crop before shading out. If Group B resistance is suspected, or weeds have grown through a previous application of chlorsulfuron apply 2.1 L/ha. Use a minimum spray volume of 70 L/ha.                    |
|   |   | 4-8 leaves     |                        | 2.1 L  | <b>Crop stages - Wheat, Barley, Oats and Triticale:</b> 3 leaf to full tillering. (Z13-30). Use as early as possible to avoid shading of weeds by the crop.   |
| Turf, established Couch (incl. Qld Blue), Kikuyu, Paspalum, Buffalo, Fescue, Bent & Rye lawns | Bindy-eye, Jo-Jo (Onehunga), Cudweed, Dandelion, Catsear, Plantains, Thistles, Oxalis, Capeweed, Creeping Buttercup, Fleabane, Clover (not Tas) | -              | All States             | 300 mL/ 100 L water OR 60 mL /100 m <sup>2</sup> | Apply evenly over the area to be treated. DO NOT mow turf for 2 days after treatment.   |

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

**WITHHOLDING PERIOD: DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD FOR 8 WEEKS AFTER APPLICATION.**

#### GENERAL INSTRUCTIONS

Before opening, carefully read Directions for Use, Precautionary and Protection Statements, Storage and Disposal, Safety Directions and First Aid Instructions.

#### MIXING

To ensure even mixing, half fill spray tank with clean water and add the required amount of this product. Agitate thoroughly, then add the remainder of water. Agitate again before spraying commences.

#### APPLICATION

DO NOT use rain-drop or air-induction nozzles as coverage of weeds may not be adequate.

**Boom Sprayer:** Calibrate the machine before use to ensure that the correct application rate is obtained. Check height of boom above the crop to ensure that the spray is evenly distributed.

**Cereals:** Apply 50 to 200 litres of water per hectare. Use higher water volume (min. 100 L/ha) where the weed infestation is heavy, the crop cover is dense or when tank-mixing with diclofop-methyl 500. Complete coverage of weeds is essential.

**Linseed:** Apply a minimum of 220 litres of water per hectare.

**Turf:** Apply a minimum of 500 litres of water per hectare.

**Aerial Application:** Apply a minimum of 22 litres of water per hectare or 30 litres of water per hectare if tank-mixing with diclofop methyl. Markers should always move upwind before aircraft passes overhead. Application by microneaire equipment may give variable results.

#### EQUIPMENT MAINTENANCE

After use wash application equipment thoroughly with Spraymate Tank & Equipment Cleaner and rinse several times.

#### COMPATIBILITY

This product is physically compatible in the spray tank with one of the following herbicides or insecticides in wheat and barley only. Metsulfuron methyl, Diclofop-methyl, Dicamba 500, MCPA, Danadim®, Le Mat\* or chlorpyrifos. When mixed with Metsulfuron methyl or dicamba 500, do not apply to cereals undersown with lucerne. When mixed with diclofop-methyl, do not exceed 1.4 litres of this product per hectare. Observe all instructions on the mixture partner label. As formulations of other manufacturers' products are beyond the control of Cheminova Australia Pty Ltd, all mixtures should be tested prior to mixing commercial quantities.

#### RESISTANT WEEDS WARNING

|       |   |   |           |
|-------|---|---|-----------|
| GROUP | C | I | HERBICIDE |
|-------|---|---|-----------|

Barometer Herbicide is a member of both the nitriles and the phenoxy groups of herbicides. Barometer has both the inhibitors of photosynthesis at photosystem II and disruptors of plant cell growth mode of action. For weed resistance management

Barometer is a Group C and Group I Herbicide. Some naturally-occurring weed biotypes resistant to Barometer and other Group C and Group I 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 C and Group I herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Cheminova Australia Pty Ltd accepts no liability for any losses that may result from the failure of Barometer to control resistant weeds.

#### 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. Avoid spray drift and vapour movement onto susceptible crops such as cotton, tobacco, tomatoes, vines, lupins, fruit trees and ornamentals. DO NOT apply by misting machines.

**Note:** Maximum daily temperatures at or above 20°C at application, or on days following treatment, may result in seedling mortality and established plants may be damaged.

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

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

#### PROTECTION OF LIVESTOCK

**Grazing Precaution:** Sprayed weeds may become more palatable to stock and a higher intake of some weeds may result in stock poisoning and death from causes such as nitrate poisoning. Care should be taken especially where Capeweed, Paterson's Curse and Variegated Thistles predominate in the pasture. Avoid grazing with young or breeding stock. DO NOT graze horses or pigs on Paterson's Curse. If in doubt, contact your nearest Department of Agriculture.

#### STORAGE AND DISPOSAL

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

*Leaflet:* The method of disposal of the container depends on the container type. Read the 'Storage and Disposal' instructions on the label that is attached to the container.

*Non-returnable containers only:* Triple or preferably pressure rinse containers before disposal. Add rinsings to the 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 for appropriate disposal 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.

*100, 110L:* Do not remove or tamper with the dry valves or security seal. Do not contaminate the drum with water or any other foreign matter. After each use of the product ensure that the dry valve coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the drum is empty remove the dry valve coupler and return to the point of purchase.

*1000L:* Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage

#### SAFETY DIRECTIONS

Product is poisonous if inhaled or swallowed. Attacks the eyes and will irritate the skin. Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow-length PVC gloves and face shield or goggles. If product in eyes, wash it out immediately with water. 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. If swallowed, do NOT induce vomiting. Give a glass of water.

#### SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet available from [www.cheminova.com.au](http://www.cheminova.com.au)

#### WARNING

This product must be used, handled and stored strictly as directed in accordance with this label, packaging and other reference material ("Directions"). To the extent permitted by law Cheminova Australia Pty Ltd and its related companies will have no liability for any injury, loss or damage arising from a failure to follow the Directions.

APVMA Approval No: 63239/61982

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Batch No:                      Date of Manufacture

Drum/muster logo (relevant pack sizes):

® Registered trademark of Cheminova

\*Other trademarks

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| <p><b>FOR 24 HOUR SPECIALIST ADVICE<br/>IN EMERGENCY ONLY<br/>PHONE 1800 033 111</b></p> |
|--|