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

Punch
Herbicide

ACTIVE CONSTITUENT: 240 g/L CARFENTRAZONE-ETHYL
SOLVENTS: 736 g/L LIQUID HYDROCARBON
20 g/L N-METHYL-2-PYRROLIDONE

For improvement in the control of marshmallow and certain other broadleaf weeds prior to establishment of broadacre crops, fallows, in commercial, industrial and public service areas, and around agricultural buildings and yards, in tank mixture with knockdown herbicides; for the control of marshmallow and annual nettles in grass pastures and rough grass/turf areas control of volunteer cotton seedlings including Roundup Ready cotton and desiccation of cotton regrowth as per the Directions For Use Table.

CHEMINOVA AUSTRALIA PTY LTD
CONTENTS: 1-1000L

12 JULIUS AVE
NORTH RYDE NSW 2113
PH: 1800 624 597
www.cheminova.com.au
DIRECTIONS FOR USE:

Restrains

DO NOT apply by aerial application except for cotton desiccation.

<table>
<thead>
<tr>
<th>Situation</th>
<th>Weeds Controlled</th>
<th>State</th>
<th>Time of Application</th>
<th>Rate</th>
<th>Critical Comments</th>
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| Prior to sowing winter and summer broadacre crops and starting a fallow. | Australian Crassula/Stonecrop (*Crassula* spp.), Capeweed (*Arctotheca calendula*), Chickweed (*Stellaria media*), Common Storksbill (max. 4 leaves) (*Erodium cicutarium*), Doublegee / Spiny Emex / Three Cornered Jack (*Emex australis*), Marshmallow (*Malva parviflora*), Paterson’s Curse (*Echium plantagineum*), Sub. Clover (*Trifolium subterraneum*), Wild Radish (*Raphanus raphanistrum*) | All States | Apply as a tank mix with glyphosate | 25 - 75 mL/ha plus recommended label rate of knockdown herbicide | Addition of Punch to a knockdown herbicide will increase the speed at which treated broadleaved weeds in general develop visible symptoms (compared to results achieved with knockdown herbicides applied alone) and may improve final control of broadleaved weeds including certain hard-to-kill weeds, marshmallow in particular. The use of higher rates and full soil disturbance in cropping situations may improve control of marshmallow in particular. Use the lower rates on younger plants or plants growing under good conditions and the higher rates on older plants or plants growing under less optimum conditions. The lower rate may only provide suppression of capeweed, wild radish, common storksbill and doublegee under poor growing conditions. Common storksbill should be no larger than 4 leaf at spraying, recently germinated and not under stress – older or stressed plants may not be adequately controlled. Application to hardened weeds or drought stressed weeds especially under summer conditions may cause only localised injury to weed foliage which may not enhance final weed control. Mallow growing and sprayed in the summer is especially prone to drought stress and may either not show symptoms typical of Punch or may regrow following treatment although plants did not appear very stressed at application. Apply only as a tank mix with recommended rate of knockdown herbicide. Refer to the appropriate label for weed sizes and follow all label directions. Addition of an oil adjuvant at 0.5% may be beneficial when applying Punch with a glyphosate herbicide. To ensure uptake of Punch DO NOT sow crops for at least 1 hour after application. Always refer to the appropriate companion product label in case a longer re-crop sowing period is required. When using Punch as a spot spray, apply in sufficient water (minimum 500 L/ha) to thoroughly wet all weed foliage to the point of run-off. Addition of standard rates of a non-ionic surfactant may improve weed control. |}

If one of the above weeds is the dominant weed, and there is no specific rate for it in the knockdown herbicide’s label, consult the label’s generic annual-weed rate-range. Select from within this range to suit the weed-stage, weed-density, conditions (etc) of your situation.

To assist in weed control in commercial, industrial and public service areas, around agricultural buildings and yards.

Refer also to the product label for the knockdown herbicide used.

If one of the above weeds is the dominant weed, and there is no specific rate for it in the knockdown herbicide’s label, consult the label’s generic annual-weed rate-range. Select from within this range to suit the weed-stage, weed-density, conditions (etc) of your situation.
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<td>Prior to sowing summer broadacre crops and starting a fallow</td>
<td>Volunteer Cotton seedlings, including Roundup Ready varieties</td>
<td>Qld, NSW, WA only</td>
<td>Apply to seedlings at 2-6 leaf stage</td>
<td>Roundup Ready cotton only: 75 – 100 mL/ha plus oil adjuvant 1% or 75 – 100 mL/ha plus glyphosate plus oil adjuvant 0.5% Conventional cotton only: 50 - 75 mL/ha plus recommended rate of knockdown herbicide</td>
<td>Apply Punch in a minimum spray volume of 80 L/ha to ensure effective coverage. Use of lower spray volumes may reduce weed control. Cotton should be growing well at application; application to plants growing under heat and moisture stress may reduce the level of control. To broaden the weed spectrum Punch may be tank mixed with the recommended rate of a knockdown herbicide (glyphosate or paraquat). When using a tank mix with glyphosate for control of Roundup Ready seedlings the higher rate range of Punch is required as well as a crop oil at 0.5%. When using a tank mix with glyphosate for control of Conventional Cotton seedlings the addition of standard rates of a non-ionic surfactant or 0.5% of an oil adjuvant will maximise control.</td>
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<tr>
<td>Grass Pastures, Rough grass/ Turf areas</td>
<td>Marshmallow (Malva parviflora), Annual (Stinging) Nettles (Urtica urens)</td>
<td>All States</td>
<td>Apply to seedlings at 2-10 leaf stage</td>
<td>25 - 75 mL/ha plus oil adjuvant 0.5% 25-75 mL/ha plus recommended rate of 2,4-D</td>
<td>Use the lower rates on younger plants or plants growing under good conditions and the higher rates on older plants or plants growing under less optimum conditions. These rates may only provide suppression of marshmallow. To improve the control of marshmallow Punch should be tank mixed with one of the following: 500 mL/ha of an 800 g/L ethyl ester of 2,4-D 650 mL/ha of a 600 g/L LV ester of 2,4-D 750 mL/ha of a 625 g/L amine of 2,4-D – activity of this mix will be improved with the addition of oil adjuvant at 0.5%.</td>
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<tr>
<td>Cotton</td>
<td>Desiccation of regrowth</td>
<td>Qld, NSW, WA only</td>
<td>Apply to regrowth following defoliation</td>
<td>80 – 100 mL/ha</td>
<td>Use Punch to desiccate regrowth which occurs following the defoliation program. Apply with crop oil concentrates or blended oil/surfactant adjuvants as this may result in a greater reduction of green shoot. Use the higher rate of Punch when regrowth is vigorous or when there are more than 20 regrowth leaves of any size, per plant. Ensure that spray equipment is adjusted to provide thorough coverage of foliage to maximise product performance. Use a minimum of 100 L/ha for ground application and 30 L/ha for aerial application.</td>
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</tbody>
</table>

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION
WITHHOLDING PERIODS:
HARVEST: NOT REQUIRED WHEN USED AS DIRECTED. HOWEVER, REFER ALSO TO THE WITHHOLDING PERIOD OF PRODUCT/S MIXED WITH PUNCH.
GRAZING: DO NOT GRAZE TREATED AREAS OR CUT FOR STOCKFOOD FOR 14 DAYS AFTER APPLICATION.
COTTON PROCESSING: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.
GRAZING/COTTON TRASH: DO NOT GRAZE TREATED AREAS OR FEED COTTON TRASH TO LIVESTOCK.
EXPORT SLAUGHTER INTERVAL (ESI): An export slaughter interval is not required when used as directed.
GENERAL INSTRUCTIONS
Punch is a post-emergence herbicide. It is added to knockdown herbicides to: improve the control of certain broadleaf weeds, including marshmallow, prior to the establishment of fallows and winter and summer broadacre crops, and; control marshmallow in grass pastures, commercial, industrial and public service areas, and around agricultural buildings, yards and other farm situations. Punch can be used alone with a suitable adjuvant for control of volunteer cotton seedlings including Roundup Ready cotton. It can also be used for desiccation of regrowth in cotton.

Punch is a fast acting contact herbicide and aids in control of weeds through a process of membrane disruption. The foliar uptake of Punch is rapid and plant desiccation can occur within 4 days of application. Application of Punch should target small, actively growing weeds. Subsequent germinations will not be controlled.

SYMPTOMS
Punch is rapidly absorbed through the foliage of plants. Within a few hours of application the foliage of susceptible weeds shows signs of desiccation and, in subsequent days, necrosis and death of the plant follow.

Variations in cultural practices and extremes in environmental situations such as temperature, moisture and soil condition may affect the activity of Punch. Under warm, moist conditions, herbicide symptoms may be accelerated. Under very dry conditions the expression of herbicidal symptoms is delayed, and weeds hardened off by drought are less susceptible to Punch.

COMPATIBILITY
For most uses Punch should be tank mixed with formulations of knockdown herbicides including glyphosate, paraquat and glufosinate-ammonium. Punch is also compatible with partner herbicides commonly used with knockdown herbicides including atrazine, 2,4-D amine and 2,4-D ester, triasulfuron, pendimethalin, simazine and trifluralin. This compatibility claim is restricted to a three-way mix of Punch with any one of the above partner herbicides plus a knockdown herbicide (provided the knockdown herbicide label includes a claim of compatibility with that partner herbicide). Punch is compatible with non ionic surfactants (wetting agents) and with oil adjuvants.

RESISTANT WEED WARNING
Punch Herbicide is a member of the Aryl triazoline group of herbicides. Its mode of action is through a process of membrane disruption, which is initiated by the inhibition of the enzyme protoporphyrinogen oxidase. This inhibition interferes with the chlorophyll biosynthetic pathway. For weed resistance management Punch is a Group G herbicide. Some naturally occurring weed biotypes resistant to Punch and other Group G 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 Punch or other Group G 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 Punch to control resistant weeds.

TIMING
Pre-crop, Volunteer Cotton and Marshmallow in Grass Pastures
Application should be made to small, actively growing weeds less than 6 to 8 leaf in stage. As Punch is a contact herbicide, best control is achieved when weeds are exposed and are not shielded by other weeds and or stubble.
Cotton
If cotton re-growth occurs after the initial defoliation program, apply Punch to desiccate re-growth prior to harvest.

MIXING
Add half the required volume of water to spray tank and start agitation. Add any partner SC or WG herbicide next if it should be added before an EC or knockdown herbicide. Add the measured amount of Punch next, followed by the knockdown herbicide (if required). Add balance of water to tank and add any adjuvant or additive if recommended for use with the knockdown herbicide or for use in grapevines or as suggested in the Critical Comments. Maintain good agitation at all times until spraying is completed. DO NOT store spray mixture overnight.

APPLICATION
DO NOT apply by aerial application except for cotton desiccation.

Ground sprayers
Pre-crop, Volunteer cotton and Marshmallow in grass pastures: Apply Punch as a broadcast application using a conventional boom sprayer with either mechanical or by-pass agitation. Use single orifice flat fan nozzles such as Spraying Systems TeeJet® 11001, 110015, 11002 or equivalent sizes from other manufacturers or Spraying Systems TwinJet® twin flat spray tips T60-11002, T60-11003 or T60-11004 or equivalent sizes from other manufacturers. DO NOT use 110-03 or bigger single orifice nozzles or TJ11006 or bigger twin orifice nozzles with Punch. DO NOT use floodjet, low drift or air induction nozzles, boomless jets or misters or controlled droplet application equipment.
Spray equipment should be properly calibrated to ensure correct and uniform application. Use a spray volume of 50 to 150 litres per hectare (minimum 80 L/ha for volunteer cotton). Experience has shown that increasing spray volumes can improve weed control. Use the lowest pressure and boom height which provides uniform coverage. Use the higher volume if weed infestation is heavy and/or tall.

The best application conditions are when soil is moist, weather fine and rain unlikely within one hour or as specified for the knockdown herbicide. Extremes in environmental conditions eg. temperature and moisture, soil conditions and/or cultural practices may affect the activity of Punch. Under warm moist conditions, herbicide symptoms may be accelerated. Under very dry conditions, the expression of herbicidal symptoms is delayed, and weeds hardened off by drought are less susceptible to Punch.

Cotton: When desiccating cotton regrowth, use sufficient water to obtain complete coverage of all leaves, i.e. at least 100 L water per hectare. Good coverage should be obtained with three or more nozzles per row depending upon crop height and canopy density.

Knapsack, Pneumatic, Handgun sprayers
Apply Punch at the recommended rate of 1 mL/10 L (10 mL/100 L) in conjunction with labelled handgun rates of a knockdown herbicide in sufficient water to adequately and uniformly wet the foliage of the weeds being sprayed. A spray volume of 500 L to 1000 L will usually be sufficient but higher volumes may be required for dense taller vegetation.

Aerial Application (for Cotton Desiccation Only)
Apply by fixed wing aircraft in a minimum of 30 L/ha water and ensure thorough coverage. DO NOT exaggerate swath width.

SPRAYER CLEAN OUT - after the use of Punch
Thoroughly clean all spray equipment using the following procedure when you have finished spraying highly active materials such as carfentrazone-ethyl.

In addition to the following procedure, ensure proper equipment clean-out for any other products mixed with Punch as specified on the other product labels.

Important: More complete cleaning can be achieved if the spray equipment is cleaned immediately following each use. Mix only as much herbicide spray solution as needed at a time. DO NOT store the sprayer for any extended period of time, especially overnight, with Punch spray solution remaining in the tank, spray lines, spray boom plumbing, spray nozzles or strainers.

Preparation of the Cleaning Solution:
Prepare a spray equipment cleaning solution by mixing an alkaline detergent eg “OMO” or “SPREE” at a rate of 100 g for every 100 L of clean water used.

Upon completion of applying Punch and before spraying sensitive crops including canola, pulses such as faba beans, lentils, other legumes and cotton:

1. Fill the spray tank with sufficient cleaning solution to allow the operation of the spray system for a minimum of 15 minutes to thoroughly flush hoses, spray boom and spray nozzles then fill the spray tank to capacity to ensure contact of the solution with all internal surfaces. Let the cleaning solution soak in tank, pump and spray lines overnight.
2. Before further use of the sprayer, operate the spray system for 15 minutes, then completely drain the sprayer system. Rinse the tank with clean water and flush through the hoses, spray boom, and spray nozzles.
3. If possible spray a pesticide requiring an oil adjuvant e.g. Respond Herbicide & Supercharge onto cereals as a further means of removing possible residues of Punch before spraying sensitive crops.
4. Immediately prior to commencement of spraying a sensitive crop, purge the boom lines by operating the spray system onto a fence line or waste area for sufficient time to remove any solution that has been residing in the spray lines. This is also recommended for subsequent tank loads or if the sprayer has been left standing for a period of time containing spray solution.
5. If storing equipment for more than 48 hours, preferred practice is to clean spray equipment as outlined above allowing to soak overnight, drain and flush with fresh water and leave fresh water in the spray tank, hoses, and spray booms until next use. This water must be drained from the spray boom and lines and flushed out with clean water before beginning any application to a sensitive crop.

Properly dispose of all cleaning solution and rinsate safely in accordance with Federal, State, and local regulations and guidelines.
DO NOT apply sprayer cleaning solutions or rinsate to sensitive crops. Should small quantities of Punch remain in inadequately cleaned mixing, loading and/or spray equipment, they may be released during subsequent applications potentially causing effects to sensitive crops and other vegetation. The above method is only effective if the cleaning solution comes into contact with every surface or contact point that may contain even minute carfentrazone-ethyl residues.

CROP PLANT BACK & ROTATION RECOMMENDATIONS
Punch does not provide residual activity, therefore no crop plant back or rotational restrictions apply. However, check the label of any product mixed with Punch, to determine any plant back periods or restrictions on use.

RE-ENTRY
DO NOT allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day’s use.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS
DO NOT apply under weather conditions, or from spray equipment, which may cause spray drift onto nearby susceptible plants, adjacent crops or pastures, or onto wetlands, waterbodies or watercourses.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
Highly toxic to algae and aquatic plants. DO NOT contaminate streams, rivers or waterways with Punch or used container.

STORAGE AND DISPOSAL
Store in the closed original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple or pressure rinse container for disposal. Dispose of rinsate by adding it to the spray tank. Do not dispose of undiluted chemical on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management program site. The cap should not be replaced but may be taken separately. If not recycling, break, crush or puncture and bury empty packaging in a local authority landfill. If no landfill is available, bury the packaging 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. Refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS
Will irritate the eyes and skin. Avoid contact with eyes and skin. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length PVC gloves. After each day’s use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID
If poisoning occurs, contact a Poisons Information Centre Phone Australia 131126. If swallowed, DO NOT induce vomiting. Give a glass of water. If in eyes wash out immediately with water.

SAFETY DATA SHEET
Additional information is listed in the Safety Data Sheet available from 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 Pty Ltd and its related companies will have no liability for any injury, loss or damage arising from a failure to follow the Directions.

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Date of Manufacture:
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^Other trademarks 130711-T
Drummuster logo (relevant pack size)