



STOMP[®] 330E

HERBICIDE

Active Constituent: 330 g/L PENDIMETHALIN

Solvent: 578 g/L LIQUID HYDROCARBON

GROUP **D** HERBICIDE

For the control of annual ryegrass and wireweed in wheat, barley and peas and annual grasses and certain broadleaf weeds in various crops as per the DIRECTIONS FOR USE table.

FEATURES

Residual activity.

BENEFITS

Better crop vigour. Longer weed control.

MODE OF ACTION

STOMP 330E inhibits cell division and cell elongation. Affected plants die shortly after germination or following emergence from the soil. STOMP 330E is a D group herbicide.

PACK SIZES

20 L, 100 L, 200 L

<i>U.N. Number</i>	<i>Correct Shipping Name</i>	<i>Class</i>	<i>Subsidiary Risk</i>
Not Applicable	Not considered a Dangerous Good	Not Applicable	Not Applicable
<i>HAZCHEM Code</i>	<i>Poisons Schedule</i>	<i>Emergency Guide</i>	<i>Packaging Group</i>
Not Applicable	5	Not Applicable	Not Applicable

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

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For the control of annual ryegrass and wireweed in wheat, barley and peas and annual grasses and certain broadleaf weeds in various crops as per the DIRECTIONS FOR USE table.

GENERAL INSTRUCTIONS

STOMP 330E Herbicide is a selective herbicide for the control of most annual grasses and certain broadleaved weeds. STOMP 330E controls weeds by inhibiting seedling development; it will not control established weeds.

For best results, seedbeds should be free of weeds, trash and clods at the time of application. Soils containing a high percentage of organic matter can result in poor control. It is recommended that application to soils containing a high percentage of organic matter (greater than 6%) be avoided.

Crop injury may result if cold, wet weather follows planting or if STOMP 330E is applied to a poorly prepared seedbed. With the return of favourable growing conditions (warm weather), the crop will usually recover and resume normal growth.

STOMP 330E will stain (yellow) any objects it contacts. Keep all objects, etc. that are not to be stained well clear of the product and spray.

MIXING

Put half the required volume of water in spray tank and start agitation. When using STOMP 330E alone, add STOMP 330E to partially filled tank and then add the remainder of the water. Mix thoroughly.

When using STOMP 330E in tank mixes with products such as atrazine or diuron, mix these products as indicated on the relevant label and add the STOMP 330E last, then complete filling of the tank. Maintain good agitation at all times until spraying is completed. If the spray mixture is allowed to settle, thorough agitation is essential to re-suspend the mixture before spraying is resumed.

Note that when tank mixing STOMP 330E with paraquat and glyphosate herbicides, the STOMP 330E should be thoroughly mixed in the spray tank first, before adding a paraquat or glyphosate product.

APPLICATION METHOD

Ground Application: Use conventional sprayers with either mechanical or by-pass agitation. Flat fan nozzles should be used. Spray equipment should be correctly calibrated to ensure proper application.

If applying STOMP 330E in tank mix combination with atrazine or diuron, nozzle screens must be no finer than 50 mesh.

Apply the recommended quantity of STOMP 330E in 50-200 litres of water per hectare. Where pre-emergence surface treatment is used, the higher rates of water are recommended.

Aerial Application: Pre-plant soybeans, cotton, sunflowers, peanuts, navy beans, cow peas, mung beans, pigeon peas and post-plant, post flushed combine sown rice only.

Apply the recommended quantity of STOMP 330E in 25-60 litres of water per hectare. It is essential that the equipment is correctly calibrated and an even spray pattern is obtained.

It is essential that markers be used and an accurate swath width is maintained.

Do NOT apply if wind speed is greater than 16 km/hour. Always spray with a cross wind in accordance with recommended flying practice.

Do NOT apply STOMP 330E Herbicide by aerial spraying in eucalypt forestry situations

INCORPORATION

- (a) STOMP 330E works best if thoroughly mixed with soil either mechanically or by irrigation or rainfall. The aim of incorporation is to produce an even band of herbicide to intercept germinating weed seeds.
- (b) Post-plant pre-emergence surface applications of STOMP 330E alone, or as a tank mixture, are most effective in controlling weeds when adequate rainfall occurs or irrigation is applied within 7-10 days after treatment to achieve incorporation. If no rain or irrigation is received within 7-10 days, light mechanical incorporation is required for optimum weed control, except when used on maize, carrots and rice.
- (c) Maize is tolerant to STOMP 330E either alone or in mixtures with atrazine if the seed germinates below the chemically treated band. Maize, carrots and rice are NOT tolerant to STOMP 330E if it is in direct contact with the seed.

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CEREAL SEED DRESSINGS

Some fungicidal seed dressings can shorten coleoptile length and this can affect emergence particularly if seed is sown too deep. When these cereal seed dressings are used in STOMP 330E treated areas it is very important to ensure there is good seed depth control and to sow just below (1 cm) the chemically treated band. Consult your local Department of Agriculture Agronomist for further advice.

WEATHER CONDITIONS AT PLANTING

Crop injury may result if cold weather follows planting. With the return of favourable growing conditions (warm weather), crops usually recover and resume normal growth. In cereals, prolonged cold wet conditions during germination and emergence can result in wheat or barley coleoptiles remaining in the treated band for an extended period. This can reduce emergence.

RESISTANT WEEDS WARNING

STOMP 330E Herbicide is a member of the dinitroaniline group of herbicides. STOMP has the inhibition of tubulin formation mode of action. For weed resistance management, STOMP is a Group D herbicide. Some naturally-occurring weed biotypes resistant to STOMP and other Group D 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 STOMP or other Group D herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, BASF Australia Ltd accepts no liability for any losses that may result from the failure of STOMP to control resistant weeds.

COMPATIBILITY

Physical compatibility of STOMP 330E has been tested with the following herbicides:

Atrazine, diuron, simazine, prometryne, fluometuron, fluometuron plus prometryne, ametryne, paraquat, propanil, linuron, glyphosate, Ramrod Flowable[†] and Logran[†]. If tank mixing, observe the directions under mixing.

FOLLOWING CROPS

In the event of crop failure the soil should be cultivated to a minimum depth of 15cm to ensure any residues are evenly dispersed throughout the soil.

If a maize crop fails due to weather conditions or some other reason, maize can be replanted the same year without adverse effects but seeding depth must be below the retilled area.

The following crops may be sown after a minimum interval of 2 months after application of STOMP 330E:

Carrots, parsnips, parsley, celery, potatoes, peas, French beans, transplanted brassicas, transplanted lettuce, transplanted tomatoes, transplanted capsicums.

The following crops may be sown after a minimum interval of 5 months after application of STOMP 330E:

Turnips, lettuce, radish, Brussels sprouts, cabbage, cauliflower, broccoli, onions, leeks, sweetcorn, pumpkins, squash, melons, cucumbers.

The following crops may be sown after a minimum interval of 12 months after application of STOMP 330E:

Redbeet (beetroot), spinach, silverbeet, poppy.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Do NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop lands or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to fish and other aquatic life.

Do NOT contaminate dams, rivers, drains or streams with chemical or used containers.

STORAGE AND DISPOSAL

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

Do NOT dispose of undiluted chemicals on-site.

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.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes, throat, nose and skin. Avoid contact with eyes and skin. Do NOT inhale vapour. When preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow length nitrile gloves and face shield or goggles. 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. 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. Telephone 131126 Australia-wide.

If swallowed do NOT induce vomiting. Give a glass of water.

MSDS

Additional information is listed in the Material Safety Data Sheet.

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 Trade Practices Act 1974 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.

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DIRECTIONS FOR USE

RESTRAINTS: Do NOT sow sensitive summer crops such as sorghum and millets within 12 months of application of STOMP 330E.
 Do NOT apply to a poorly prepared seedbed.
 Do NOT use STOMP 330E mixed with atrazine on heavy clay soils.
 Do NOT apply STOMP 330E where waterlogging is likely to occur.

CROP	WEEDS CONTROLLED	STATES	RATE/ TREATED ha	CRITICAL COMMENTS
1. PRE-PLANT INCORPORATED TREATMENT (DOUBLE INCORPORATION)				
Cotton	See Weed Table A	Qld, NSW only	3 L/ha	<p>Incorporate into the soil within 24 hours of application. Use a combine with trailing harrows and chain or offset or tandem discs or Lilliston cultivators, set to work to a depth of 2-5 cm. Subsequent planting operations in irrigated cotton may remove the STOMP 330E treated soil from hills leaving an untreated band over the row, requiring a further application of STOMP 330E or other herbicides in that band.</p> <p>When the seedbed is rough, a second incorporation is necessary. STOMP 330E may be applied by aerial or ground spraying. In the Macquarie Valley area, only apply by air when ground is too wet for ground application. (Refer note on "Incorporation" (a)).</p> <p>Use the higher rate on heavy textured soils or those high in organic matter and the lower rate on light to medium textured soils.</p>
Cow peas, mung beans, navy beans, peanuts, pigeon peas and soybeans	See Weed Table A	Qld, NSW, NT only	2.5 to 3 L/ha	
Sunflowers	See Weed Table A	Qld, NSW, Vic, SA, Tas only		
Barley and wheat	Annual ryegrass (<i>Lolium rigidum</i>), wireweed (<i>Polygonum aviculare</i>), wild oats * (<i>Avena</i> spp.) * Suppression only	All States	1.2 L/ha	<p>Incorporate into the soil within 24 hours of application. (Refer note (a) under "Incorporation").</p> <p>Use weighted harrows at 8-13 km/hr followed by a cross working with a combine set to work at a depth of 2-5 cm at 8-13 km/hr.</p> <p>Application to heavier soil types which have poor structural characteristics or are poorly worked may result in insufficient and uneven incorporation and unsatisfactory weed control. Heavy soils which are cloddy or have a surface crust or surface seal should be avoided. Attempting to incorporate STOMP 330E when soils are very wet or very dry may also result in insufficient mixing and therefore poor weed control. Wheat and barley seed must be sown approximately 1 cm beneath the chemically treated band or reduced emergence may occur.</p> <p>Refer sections "Cereal Seed Dressings" and "Weather Conditions at Planting", under GENERAL INSTRUCTIONS, for further information on emergence. If wild oats are expected to be a problem use a wild oat herbicide.</p>
Field peas	Annual ryegrass (<i>Lolium rigidum</i>), wireweed (<i>Polygonum aviculare</i>), wild oats * (<i>Avena</i> spp.) * Suppression only	Southern NSW, Vic, Tas, SA, WA only	2 L/ha	<p>Incorporate into the soil within 24 hours of application. Use weighted harrows at 8-13 km/hour followed by a cross-working with a combine set to work at a depth of 2-5 cm at 8-13 km/hr. Seed should be sown below the chemical band. Use cover harrows behind the combine. (Refer note (a) under "Incorporation").</p> <p>Use a wild oat herbicide if wild oats are expected to be a problem.</p>

CROP	WEEDS CONTROLLED	STATES	RATE/ TREATED ha	CRITICAL COMMENTS
Chickpeas, faba beans, lupins and safflower	Annual ryegrass, wireweed, wild oats * * Suppression only	Qld, northern NSW, Tas* only	2.5 to 3 L/ha	Incorporate into the soil within 24 hours of application . Use weighted harrows at 8-13 km/hr followed by a cross working with a combine set to work at a depth of 2-5 cm at 8-13 km/hr. Seed should be sown below the chemical band. Use cover harrows behind the combine. (Refer note (a) under "Incorporation"). Use the higher rates on medium to heavy textured soils and the lower rates on light textured soils. Heavy soils which are cloddy or have a surface seal should be avoided. Attempting to incorporate STOMP 330E when soils are very wet or very dry may also result in insufficient mixing and therefore poor weed control. If wild oats are expected to be a problem use a wild oat herbicide. * Lupins: In Tasmania, use only on species <i>Lupinus angustifolius</i> . Do NOT use on <i>L. albus</i> .
2. PRE-PLANT APPLICATION (INCORPORATED BY THE SOWING PROCESS)				
Barley and wheat	Annual ryegrass, wireweed, wild oats * * Suppression only	All States	1.8 L/ha	Barley and wheat: Where full (double) incorporation is impractical and where the seedbed tilth is fine and free of large stones and trash, apply STOMP 330E up to 24 hours prior to sowing. Incorporate with the combine set to sow to a depth of 3-5 cm. Use trailing harrows. (Refer note (a) under "Incorporation"). In minimum till situations, only light incorporation will occur due to soil displaced by the points. Trailing harrows should be used to provide better incorporation and weed control. Avoid heavy trash situations which may result in uneven application and incorporation, leading to reduced weed control. Wheat and barley seed must be sown at least 1cm beneath the chemically treated band or reduced emergence may occur. Refer sections "Cereal Seed Dressings" and "Weather Conditions at Planting", under GENERAL INSTRUCTIONS, for further information on emergence. Canola: Apply STOMP 330E up to 24 hours prior to sowing. Ensure that STOMP is well incorporated. Sow canola with a seeding depth of 1-3 cm, at the appropriate depth for conditions Canola seed can be placed within the treated band. Use the higher rates on medium to heavy textured soils and the lower rates on light textured soils. NOTE: Development of water-logged conditions after the application of STOMP 330E may retard the emergence of canola. If wild oats are expected to be a problem use a wild oat herbicide. Application to heavier soil types which have poor structural characteristics or are poorly worked may result in insufficient and uneven incorporation and unsatisfactory weed control. Heavy soils which are cloddy or have a surface crust or surface seal should be avoided. Attempting to incorporate STOMP 330E when soils are very wet or very dry may also result in insufficient mixing and therefore poor weed control.
Canola	Annual ryegrass, wireweed, wild oats * * Suppression only	Southern NSW, Vic, SA, WA, Tas only	1.8 to 3 L/ha	
	Silvergrass * (<i>Vulpia</i> spp.) * Suppression only		2 to 3 L/ha	

CROP	WEEDS CONTROLLED	STATES	RATE/ TREATED ha	CRITICAL COMMENTS
Chickpeas, faba beans, field peas, lupins and safflower	Annual ryegrass, wireweed, silvergrass * (<i>Vulpia</i> spp.), wild oats *	Southern NSW, Vic, SA, WA only	2 to 3 L/ha	Where full (double) incorporation is impractical and where the seedbed tilth is fine and free of large stones and trash, apply STOMP 330E or in the case of lupins, STOMP 330E plus simazine, up to 24 hours prior to sowing. Incorporate with the combine set to sow to a depth of 3-5cm. Use trailing harrows. (Refer note (a) under "Incorporation".) Application to heavier soil types which have poor structural characteristics or are poorly worked may result in insufficient and uneven incorporation and unsatisfactory weed control. Heavy soils which are cloddy or have a surface crust or a surface seal should be avoided. Attempting to incorporate STOMP 330E when soils are very wet or very dry may also result in insufficient mixing and therefore poor weed control. Refer to section on "Weather Conditions at Planting", under GENERAL INSTRUCTIONS, for further information on emergence. If wild oats are expected to be a problem use a wild oat herbicide. Use the higher rates on medium to heavy textured soils and the lower rates on light textured soils.
Lupins	* Suppression only	WA only	2 L/ha plus simazine at 500 g ai/ha	
		NSW, Vic, SA only	2 L plus simazine at 1.5 kg ai/ha	
3. POST-PLANT PRE-EMERGENCE SURFACE TREATMENT (OVERALL OR BAND SPRAYING): NON-MECHANICAL INCORPORATED				
Cotton	See Weed Table B	Qld, NSW only	4.5 L/ha	Cotton: Where incorporation prior to sowing is impractical and where the seedbed tilth is fine and free of large stones and trash, STOMP 330E should be applied within 48 hours after sowing. Sunflowers: Where incorporation prior to sowing is impractical and where the seedbed tilth is fine and free of large stones and trash, STOMP 330E should be applied after sowing and before the emergence of the crop and weeds. Where fat hen or blackberry nightshade is expected to be a major problem, pre-plant incorporation (No. 1 application method), is preferred. (Refer section on "Incorporation" (a) and (b)).
Sunflowers		Qld, NSW, SA only		
Broad beans	Poppies, wireweed (<i>Polygonum aviculare</i>)	Tas only	4 L/ha	MINIMUM PLANTING DEPTH: Carrots: 15 mm Processing peas, broad beans and French beans: 30 mm Seed should be sown with press wheels or rollers behind the planter in order to ensure coverage of the seed and compaction of the seed bed. Apply STOMP 330E to a fine firm seedbed free of ridges, clods and trash within 2 days after sowing. Use the higher rates on heavier textured soils or those with a higher organic matter content. Incorporate with 12 to 25 mm of spray irrigation or rainfall applied within one day of application for optimum performance. Do NOT disturb the soil by rolling or harrowing after STOMP 330E has been applied. Do NOT apply where heavy rainfall or irrigation is likely to lead to water logging. Do NOT use STOMP 330E on soils with an organic matter content above 6% as inconsistent weed control will occur. French beans: For Qld, use in the Lockyer and Fassifern valleys only. Do NOT apply to French beans sown during the autumn, winter or early spring or which are likely to be stressed by cold weather.
Carrots	See Weed Table D	Qld, NSW, Vic, SA, Tas, WA only	2 to 3 L/ha	
	Weed Table D plus sowthistle (<i>Sonchus oleraceus</i>), wild radish (<i>Raphanus raphanistrum</i>)		2 L/ha plus linuron at 1.0 kg ai/ha	
French beans	See Weed Table D	Qld, Tas only	3 to 4 L/ha	
Processing peas		Qld, Vic only	2 to 4 L/ha	
		Tas only	4 L/ha	

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CROP	WEEDS CONTROLLED	STATES	RATE/ TREATED ha	CRITICAL COMMENTS
Maize	See Weed Table B	Qld, NSW, NT only	4.5 L/ha	Where grasses are expected to be the major problem, this treatment is recommended - STOMP 330E alone. Apply STOMP 330E after planting and before emergence of crop and weeds. Do NOT incorporate this treatment. Avoid application in dry weather; this may cause pruning of aerial roots and lodging. (Refer sections on "Incorporation" (b) and (c)).
	See Weed Table C		3 L/ha plus atrazine at 1.0 kg ai/ha	Where thornapple, Noogoora burr, Bathurst burr, caltrop, paddy melon or mintweed are expected to be the major problems, STOMP 330E should be applied in a tank mix combination with atrazine after planting and before the emergence of crop and weeds. Do NOT incorporate this mixture. Follow directions on atrazine label carefully. This treatment should not lead to soil residue problems with atrazine as the application rate is low. Do NOT use STOMP 330E mixed with atrazine on heavy clay soils as weed control may not be adequate. (Refer section on "Incorporation" (b) and (c)).
Onions	Hogweed (wireweed) (<i>Polygonum aviculare</i>)	Tas only	0.75 to 1 L/ha	Apply in conjunction with other herbicides as advised by a qualified crop adviser to ensure that an adequate level of weed control is achieved in adverse conditions. Pre-emergence: Do NOT use on sandy soils. MINIMUM PLANTING DEPTH: 15mm Apply from immediately after sowing until just prior to emergence. Apply STOMP 330E to a fine, firm seedbed free of clods and trash. Use the higher rates on heavy textured soils or those with a high organic matter content. For optimum performance, incorporate with 12 to 25 mm of spray irrigation within one day of application. Do NOT exceed 0.75 L /ha if soil conditions are wet and cold.
			1 to 2 L/ha	Post-emergence: Apply STOMP 330E from the first true leaf until the 3 leaf stage. Repeat applications may be made after the 1 leaf up to the 3 leaf stage providing total usage of STOMP 330E on crop does not exceed 3 L/ha. Avoid applying STOMP 330E to areas where water logging is likely to occur.

CROP	WEEDS CONTROLLED	STATES	RATE/ TREATED ha	CRITICAL COMMENTS
4. POST-PLANT PRE EMERGENCE TREATMENT (INCORPORATED OR NON-INCORPORATED)				
Sugarcane	Awnless barnyard grass (<i>Echinochloa colona</i>), crowsfoot grass (<i>Eleusine indica</i>), green summer grass (<i>Brachiaria subquadrifera</i>), Guinea grass (<i>Panicum maximum</i> c.v. <i>Hamil</i> and c.v. <i>Guinea</i>), Summer grass (<i>Digitaria ciliaris</i>)	Qld, NSW, WA only	3 to 4.5 L/ha	STOMP 330E should be applied as soon as possible after planting and before weed emergence. However, consolidation (cutaway operation) of the planting furrow prior to application to prevent soil movement into the base of the drill is recommended. Poor grass control is expected in soils which contain a high percentage of organic matter. (Refer section on "Incorporation" (a)). Use the higher rate where longer weed control is required or where incorporation by irrigation or rainfall is likely to be delayed more than 5 days. INCORPORATED: Under dry conditions or where some cultivation is expected after application STOMP 330E should be thoroughly incorporated by finger rakes to a shallow depth. In subsequent tillage operations, cultivation depth should not exceed the depth of incorporation. WATER INCORPORATION: Incorporate using 12 to 25 mm of spray irrigation or rainfall within 10 days of application. The area should not be disturbed by cultivation for the expected duration of weed control where this method of application is used. If excessive irrigation or rainfall occurs after the application of STOMP 330E, resulting in the movement of soil from the top to the bottom of the planting drill, weed control will be reduced.
	Blue top (blue billygoat weed) (<i>Ageratum houstonianum</i>)		3 L/ha plus atrazine at 1.5 kg ai/ha or diuron at 1.5 kg ai/ha	For other broadleaf weeds higher rates of atrazine or diuron can be tank mixed with STOMP 330E – see the relevant atrazine or diuron labels for details.
5. POST-PLANT AND FLUSHING: STOMP 330E TANK MIXTURES				
Combine sown rice	Barnyard grass (<i>Echinochloa</i> spp.), silvertop grass (brown beetle grass) (<i>Diplachne reptatrix</i>), starfruit (<i>Damasonium minus</i>)	Qld, NSW, NT only	3 L/ha plus propanil at 1.8 kg ai/ha	Apply this tank mixture up to the 2 leaf stage of barnyard grass and 1 leaf stage of silvertop. Apply by ground rig in 70 - 100 L/ha or by aircraft in 25-30 L/ha total spray volume. WATER MANAGEMENT: Flush immediately after sowing to enable a good even germination of rice. The soil surface must be sealed by a flushing irrigation or rainfall before the application of STOMP 330E plus propanil. Apply a second flush or permanent flood after 2 days but not later than 5 days after the application of STOMP 330E plus propanil. To assist in the control of barnyard grass, permanent water should be applied as soon as the rice can tolerate it and levels maintained for optimum growth of rice. RICE STAGE: After the first flushing irrigation the stage of rice at application of STOMP 330E plus propanil is not critical and timing should be based on the stage of weed growth and water management. However, do NOT apply to rice in a weakened condition from causes such as soil salts, moisture stress, overwatering, or any other cause. Some transient leaf burn of the rice may result after the application of STOMP 330E plus propanil but no long term effects will result from this leaf burn. Rice seed should be covered with at least 1cm of water after the first flushing irrigation before STOMP 330E plus propanil is applied to germinating rice seed.

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CROP	WEEDS CONTROLLED	STATES	RATE/ TREATED ha	CRITICAL COMMENTS
Combine sown rice and pasture sod sown rice	Barnyard grass, silvertop grass, starfruit, annual sedges * (<i>Cyperus</i> spp.) * Suppression only	Qld, NSW, NT only	3 or 4.5 L/ha plus paraquat at 200 g ai/ha	Use the higher rate when sowing into pasture sod sown rice for annual sedge control or when more than 10 days is expected between treatment and permanent water. Apply this tank mix up to the 3 leaf stage of barnyard grass, silvertop and sedges, before rice emergence. Apply by ground rig in 70-100 L/ha of water total spray volume. WATER MANAGEMENT: Flush immediately after sowing to enable a good even germination of rice. The soil surface must be sealed by a flushing irrigation or rainfall before the application of STOMP 330E plus paraquat. Apply a second flush or permanent flood after 1 day but not later than 5 days after the application of STOMP 330E plus paraquat. To assist in the control of barnyard grass, permanent water should be applied as soon as the rice can tolerate it and levels maintained for optimum growth of rice. RICE STAGE: After the first flushing irrigation, STOMP 330E plus paraquat must be applied before rice emergence. Do NOT apply to rice in a weakened condition from causes such as soil salts, moisture stress, over-watering, or any other cause.
6. PRE-TRANSPLANT TREATMENT				
Transplanted broccoli, cabbage and cauliflower	See Weed Table D	Qld, NSW, Vic, SA, Tas, WA only	2 to 3 L/ha	Apply STOMP 330E to a firm seedbed free of ridges, clods and trash between 7 and 2 days before transplanting. Use the higher rates on heavier textured soils or those with a higher organic matter content. Incorporate with 12 to 25 mm of spray irrigation or rainfall applied within one day of application for optimum performance. Mechanical disturbance to the seed bed at transplanting should be minimised to achieve optimum performance. Do NOT apply after transplanting as damage will occur. Do NOT apply where water logging is likely to occur after transplanting or crop stunting will result. Do NOT use STOMP 330E on soils with an organic matter content above 6% as inconsistent weed control will occur. Ramrod may be tank mixed with STOMP 330E prior to transplanting or applied separately after transplanting.
	Weed Table D plus dwarf amaranth (<i>Amaranthus macrocarpus</i>), green amaranth (<i>Amaranthus viridis</i>), annual nettles (<i>Urtica</i> spp.), Indian hedge mustard (<i>Sisymbrium orientale</i>), potato weed (<i>Galinsoga parviflora</i>), sowthistle, turnip weed (<i>Rapistrum rugosum</i>), wild radish, wild turnip (<i>Brassica tournefortii</i>), winter grass (<i>Poa annua</i>)		2 to 2.5 L/ha plus 9 L/ha Ramrod ¹ Flowable	
Transplanted lettuce	See Weed Table D	Qld, NSW, Vic, SA, WA only	2 to 4 L/ha	

CROP	WEEDS CONTROLLED	STATES	RATE/ TREATED ha	CRITICAL COMMENTS
7. PERENNIAL CROPS				
Avocadoes, bananas, citrus, deciduous fruits, grapevines, lychees, macadamia nut, mangoes, nuts	Dwarf amaranth, green amaranth, annual ryegrass, asthma plant (<i>Euphorbia hirta</i>), barnyard grass, chickweed (<i>Stellaria media</i>), crowsfoot grass, deadnettle (<i>Lamium amplexicaule</i>), fat hen (<i>Chenopodium album</i>), pigeon grass, pigweed (<i>Portulaca oleracea</i>), prickly lettuce (<i>Lactuca serriola</i>), sowthistle, summer grass, winter grass, wireweed	All States	9 to 12 L/ha	Do NOT apply STOMP 330E to grapevines after bud swell. PRECAUTION: STOMP 330E or STOMP 330E plus simazine is likely to affect the emergence and growth of green manure crops such as oats or beans between rows of trees or vines, if they are sown into the treated band within 12 months of application. Use the higher rate on medium to heavy textured soils and the lower rate on light textured soils. Use a directed spray avoiding spray contact with green bark, fruit and foliage. If applied to freshly transplanted trees or vines, soils should be compacted prior to application of STOMP 330E to avoid contact with roots. STOMP 330E must be incorporated by a minimum of 5mm of rainfall or spray irrigation as soon as possible but no later than 10 days after application or weed control may be reduced. For best results, soil surface should be free of weeds, surface litter and clods at the time of application. If small weeds are present at the time of application, STOMP 330E should be tank mixed with a knockdown herbicide at the recommended rate. CAUTION: Use of simazine mixtures could lead to crop damage on vines younger than 3 years of age. Refer to the simazine label. Do NOT apply simazine mixtures to alkaline soils.
	As above plus prairie grass (<i>Bromus unioloides</i>), spotted medic (<i>Medicago arabica</i>)		12 L/ha	
Citrus, deciduous fruits, grapevines and nuts	As above plus cobbler's pegs (<i>Bidens pilosa</i>), curious weed (<i>Schkuhria pinnata</i>), stinking Roger (<i>Tagetes minuta</i>)		9 L/ha plus simazine at 800 g ai/ha	
	As above plus caltrop (<i>Tribulus terrestris</i>)		12 L/ha plus simazine at 1 kg ai/ha	
Established lucerne seed crops only	Fat hen, summer grass (<i>Digitaria sanguinalis</i>)	NSW, SA only	3 L/ha	During the spring months prior to irrigation, the lucerne stand should be grazed down hard to produce a low trash soil surface. Apply STOMP 330E and incorporate treatment by 12-25mm of spray irrigation or rainfall within one day of application.
	As above plus pigeon grass (<i>Setaria</i> spp.)		4.5 L/ha	
Eucalypt forestry plantations	Amaranthus (<i>Amaranthus</i> spp.), annual rye grass, asthma plant (<i>Euphorbia hirta</i>), barnyard grass (<i>Echinachloa cruss-galli</i>), chickweed (<i>Stellaria media</i>), crowsfoot grass (<i>Eluesine indica</i>), deadnettle (<i>Lamium amplexicaule</i>), fat hen (<i>Chenopodium album</i>), pigeon grass (<i>Setaria</i> spp.), pigweed (<i>Portulaca oleracea</i>), prickly lettuce (<i>Lactuca serriola</i>), stagger weed (<i>Stachys arvensis</i>), sow thistle (<i>Sonchos oleraceus</i>), summer grass (<i>Digitaria ciliaris</i>), winter grass (<i>Poa annua</i>), wireweed (<i>Polygonum aviculare</i>)	All States	9 L to 12 L/ha	PRE-PLANTING: Apply 7 to 2 days prior to transplanting. Use the higher rate on heavier textured soils or soils with higher organic matter. Mechanical disturbance should be minimised during planting to optimise performance. POST-PLANTING: Apply immediately following planting, before emergence of weeds. Repeat applications may be made as directed sprays to provide pre-emergence control of weeds. Emerged weeds should be controlled with carefully directed applications of a non-selective herbicide or over-the-top application of a selective herbicide. If applied to freshly transplanted trees, soils should be compacted prior to application to avoid contact with roots. Weed control may be reduced if rainfall or irrigation does not occur within 10 days of application. Flood irrigation may reduce control.

CROP	WEEDS CONTROLLED	STATES	RATE/ TREATED ha	CRITICAL COMMENTS
Pyrethrum Pre-emergence crops	See Weed Table D	Tas only	2 to 3 L/ha	Apply STOMP to seedbed within 10 days of sowing, prior to pyrethrum emergence. Apply at the lower rates on sandy soils. Incorporate with 12-25 mm of rainfall or irrigation within 1 day of application for optimum performance.
Post-emergence crops			2 to 5 L/ha	Apply STOMP prior to weed germination at any stage of pyrethrum growth from 2 true leaf stage to preflowering, as advised by qualified crop advisor. Seek advice from qualified crop advisor before applying followup applications in any one year. Incorporate with 12-25 mm of rainfall or irrigation within 1 day of application for optimum performance.
Teatree (<i>Melaleuca alternifolia</i>)	Weed Table B plus dwarf amaranth, green amaranth, annual ryegrass, barnyard grass, chickweed (<i>Stellaria media</i>), crowfoot grass, deadnettle (<i>Lamium amplexicaule</i>), fat hen, pigeon grass, pigweed, prickly lettuce (<i>Lactuca serriola</i>), sowthistle, summer grass, winter grass, wireweed	NSW, Qld, SA, NT only	4.5 to 9 L/ha	Do NOT tankmix with simazine as crop damage may result. For best results the soil surface should be free of weeds, surface litter and clods at the time of application. PRE-TRANSPLANTING: Apply 7 to 2 days prior to transplanting seedlings. Use the higher rates on heavier textured soils or soils with higher organic matter. Mechanical disturbance should be minimised during planting to optimise performance. Avoid contact of treated soil with seedling roots. POST-PLANTING: Apply immediately following planting and pre-emergence of weeds. If applied to freshly transplanted trees, soils should be compacted prior to application of STOMP 330E to avoid contact with roots. Weed control may be reduced if rainfall or irrigation does not occur within 10 days of application. Flood irrigation may reduce control.
8. ESTABLISHED TURF				
TURF WARM SEASON SPECIES. Bahia grass, buffalo grass, couch, Kikuyu, salt water couch and Zoysia grass turf	Crowsfoot (crab grass), summer grass, winter grass	All States, ACT, NT only	4.5 L/ha or 45 mL/100 m ²	The product should be incorporated by 10-15 mm of spray irrigation or rainfall as soon as possible within one day of application. Apply once every 10 weeks from early September to the end of February.
Queensland blue couch, hybrid couch c.v. Tifdwarf			3 L/ha or 30 mL/100 m ²	
TURF COOL SEASON SPECIES. Kentucky blue grass			4.5 L/ha or 45 mL/100 m ²	The product should be incorporated by 10-15mm of spray irrigation or rainfall as soon as possible within one day of application. Do NOT make more than one application of STOMP 330E per year. (Refers to ryegrass, bent grass only).
Bent grass, perennial ryegrass			3 L/ha or 30 mL/100 m ²	

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CROP	WEEDS CONTROLLED	STATES	RATE/ TREATED ha	CRITICAL COMMENTS
9. IRRIGATION CHANNELS				
Cotton irrigation banks, channels and drains	Barnyard grass, silvertop grass (brown beetle grass)	Qld, NSW only	4.5 to 9 L/ha	Use the lower rate when short term control is required. Apply in late winter or early spring after regrading or clearing channels. The soil should be loose and free of large clods. If 25-50 mm of rainfall has not fallen within 14 days of application the channel should be filled with water and allowed to stand for 1 day. The water in the channel should then be drained off and used to pre-irrigate cotton fields. Do NOT use water in channel to irrigate or pre-irrigate susceptible crops.
			6 L/ha plus diuron at 8.1 kg ai/ha	Use this mixture where long term control is required or a broader weed spectrum is present. See diuron label for details. Water in the channel should NOT be used to irrigate or pre-irrigate susceptible crops.

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

WITHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.

WEED TABLE

A. IN COTTON, COW PEAS, MUNG BEANS, NAVY BEANS, PEANUTS, PIGEON PEAS, SOYBEANS, SUNFLOWERS – with pre-plant incorporated treatment (double incorporation)

The following weeds are controlled:

Barnyard grass	<i>Echinochloa</i> spp.	Native millet	<i>Panicum decompositum</i>
Button grass	<i>Dactyloctenium radulans</i>	Pale pigeon grass	<i>Setaria glauca</i>
Common heliotrope	<i>Heliotropium europeum</i>	Paspalidium (Brigalow grass)	<i>Paspalidium</i> spp.
Crested goosefoot	<i>Chenopodium cristatum</i>	Pepper grass	<i>Panicum whitei</i>
Crowsfoot grass	<i>Eleusine indica</i>	Pigweed	<i>Portulaca oleracea</i>
Dwarf amaranth	<i>Amaranthus macrocarpus</i>	Queensland blue grass	<i>Dichanthium sericeum</i>
Early spring grass	<i>Eriochloa</i> spp.	Red Flinders grass	<i>Iseilema vaginiflorum</i>
Fat hen	<i>Chenopodium album</i>	Scarlet pimpernel	<i>Anagallis arvensis</i>
Green amaranth	<i>Amaranthus viridis</i>	Small burr grass	<i>Tragus australianus</i>
Liverseed grass	<i>Urochloa panicoides</i>	Stink grass	<i>Eragrostis cilianensis</i>
Mexican clover (white eye)	<i>Richardia brasiliensis</i>	Weeping love grass	<i>Eragrostis parviflora</i>
Mossman River grass	<i>Cenchrus echinatus</i>	Wireweed	<i>Polygonum aviculare</i>

Useful suppression of the following weeds is also obtained:

Blackberry nightshade	<i>Solanum nigrum</i>	Mintweed	<i>Salvia reflexa</i>
Caltrop	<i>Tribulus terrestris</i>	Peppercress	<i>Lepidium</i> spp.
Common verbena	<i>Verbena officinalis</i>	Stagger weed	<i>Stachys arvensis</i>

B. IN COTTON, SUNFLOWERS, MAIZE and TEATREE - with post-plant pre-emergence surface treatment (STOMP 330E alone)

The following weeds are controlled:

Barnyard grass	<i>Echinochloa</i> spp.	Pale pigeon grass	<i>Setaria glauca</i>
Button grass	<i>Dactyloctenium radulans</i>	Paspalidium (Brigalow grass)	<i>Paspalidium</i> spp.
Common heliotrope	<i>Heliotropium europeum</i>	Pepper grass	<i>Panicum whitei</i>
Crested goosefoot	<i>Chenopodium cristatum</i>	Pigweed	<i>Portulaca oleracea</i>
Crowsfoot grass	<i>Eleusine indica</i>	Queensland blue grass	<i>Dichanthium sericeum</i>
Dwarf amaranth	<i>Amaranthus macrocarpus</i>	Red Flinders grass	<i>Iseilema vaginiflorum</i>
Early spring grass	<i>Eriochloa</i> spp.	Scarlet pimpernel	<i>Anagallis arvensis</i>
Green amaranth	<i>Amaranthus viridis</i>	Small burr grass	<i>Tragus australianus</i>
Liverseed grass	<i>Urochloa panicoides</i>	Stink grass	<i>Eragrostis cilianensis</i>
Mexican clover (white eye)	<i>Richardia brasiliensis</i>	Weeping love grass	<i>Eragrostis parviflora</i>
Mossman River grass	<i>Cenchrus echinatus</i>	Wireweed	<i>Polygonum aviculare</i>
Native millet	<i>Panicum decompositum</i>		

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Useful suppression of the following weeds is also obtained:

Caltrop	<i>Tribulus terrestris</i>	Mintweed	<i>Salvia reflexa</i>
Common sowthistle	<i>Sonchus oleraceus</i>	Peppercress	<i>Lepidium</i> spp.
Common verbena	<i>Verbena officinalis</i>	Stagger weed	<i>Stachys arvensis</i>

C. IN MAIZE - with post-plant pre-emergence surface treatment of STOMP 330E plus tank mix with atrazine.

The following weeds are controlled in addition to those controlled by STOMP 330E alone:

Bathurst burr	<i>Xanthium spinosum</i>	Noogoora burr	<i>Xanthium pungens</i>
Caltrop	<i>Tribulus terrestris</i>	Paddy melon	<i>Cucumis</i> spp.
Mintweed	<i>Salvia reflexa</i>	Thornapple	<i>Datura</i> spp.

The following weeds are not controlled by STOMP 330E or the mixture with atrazine:

Bindweed	<i>Convolvulus</i> spp.	Nut grass	<i>Cyperus rotundus</i>
Wandering jew	<i>Commelina</i> spp.		

D. IN CARROTS, PROCESSING PEAS, FRENCH BEANS, TRANSPLANTED CABBAGE, CAULIFLOWER, BROCCOLI, LETTUCE AND PYRETHRUM - with pre-emergence surface treatment after planting or before transplanting as directed and incorporated by spray irrigation.

The following weeds are controlled:

Awnless barnyard grass	<i>Echinochloa colona</i>	Fat hen	<i>Chenopodium album</i>
Bittercress	<i>Coronopus didymus</i>	Green fat hen	<i>Chenopodium murale</i>
Bladder ketmia	<i>Hibiscus trionum</i>	Pigweed	<i>Portulaca oleracea</i>
Chickweed	<i>Stellaria media</i>	Prickly lettuce	<i>Lactuca serriola</i>
Deadnettle	<i>Lamium amplexicaule</i>	Shepherd's purse	<i>Capsella bursa-pastoris</i>
Wireweed	<i>Polygonum aviculare</i>		

Useful suppression only of the following weeds at the lower rates. Higher rates or tank mixtures are required for complete control (see DIRECTIONS FOR USE table):

Annual nettles	<i>Urtica</i> spp.	Indian hedge mustard	<i>Sisymbrium orientale</i>
Blackberry nightshade	<i>Solanum nigrum</i>	Turnip weed	<i>Rapistrum rugosum</i>
Common sowthistle	<i>Sonchus oleraceus</i>	Wild radish	<i>Raphanus raphanistrum</i>
Fumitory	<i>Fumaria</i> spp.	Winter grass	<i>Poa annua</i>

THIS PRODUCT IS NOT CONSIDERED TO BE A DANGEROUS GOOD UNDER THE AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD AND RAIL

FOR SPECIALIST ADVICE IN AN
EMERGENCY ONLY
PHONE 1 800 033 111
TOLL FREE – ALL HOURS – AUSTRALIA-WIDE

BASF Australia Ltd
ABN 62 008 437 867
Norwest Business Park, 7 Maitland Place
Baulkham Hills NSW 2153
Customer Service Telephone: 1800 635 550
Customer Service Fax: 1800 630 005
Product Information Line: 1800 501 940
Fax On Demand: 0500 544 044

BASF

PERMIT DETAILS FOR NUMBER – PERMIT 2143

 **STOMP[®] 330E**

HERBICIDE

Active Constituent: 330 g/L PENDIMETHALIN

Solvent: 578 g/L LIQUID HYDROCARBON

Registered to: DEPARTMENT OF PRIMARY INDUSTRIES, WATER AND ENVIRONMENT
1 FRANKLIN WHARF
HOBART 7001 TAS

FOR MINOR OFF-LABEL-USE OF A REGISTERED AGVET CHEMICAL PRODUCT

PERMIT NUMBER - PER2143

This permit is issued under the Agvet Code, of the relevant jurisdictions, to the person stated above. The holder of the permit must comply with all requirements as specified in the Agvet Code. A summary of the key requirements are that the holder must:

- supply any requested information to the NRA;
- inform the NRA if they become aware of any relevant information concerning the uses dealt with by this permit;
- comply with a lawful direction or requirement of an inspector.

This permit for the reasons given below, allows any person listed in **1. Persons** to use the products listed in **2. Products** for the minor off-label use specified in **3. Directions for Use** in the jurisdictions listed in **4. States**.

If this permit were not issued use of the products as specified in this permit would constitute an offence under the Agvet Codes.

The persons listed in **1. Persons** must comply with all conditions listed in CONDITIONS OF PERMIT to be effectively covered by this permit.

THIS PERMIT IS IN FORCE FROM 27 JANUARY 1999 TO 31 DECEMBER 2002.

It is in force until it expires or it is cancelled, suspended or surrendered.

REASON FOR ISSUE OF PERMIT

Currently there are only a few chemicals registered for use as pre-emergent herbicides on blackcurrant crops in Australia. Pendimethalin has proven to be effective for such a purpose when used on grape crops and consequently it is proposed that this use be extended to include blackcurrants. Consideration was also given to the area under blackcurrant cultivation in Tasmania which is 105 ha approximately. This permit is a renewal of a previously issued NRA permit PER988.

1. Persons

Persons generally.

2. Products

STOMP 330E HERBICIDE

Containing: 330 g/L PENDIMETHALIN
as its only active constituent.

3. Directions for Use

Crop	Pest	Rate
BLACKCURRANT	ANNUAL AND BROADLEAF WEEDS	Apply at a rate of 9 to 12L per ha.

Critical Use Comments:

DO NOT apply pendimethalin after bud swell.

4. States

TAS only.

CONDITIONS OF PERMIT

Apart from the uses dealt with in this permit users must comply with the instructions on the approved label of the registered product, particularly those instructions relating to protection, precaution, safety directions, first aid and storage and disposal.

Fate of produce from treated plants:

Produce from plants treated during the trial can only be supplied to or otherwise made available for human or animal consumption if the resulting residues are at or below the established maximum residue limit (MRL) of

Crop Damage:

The sensitivity of some species and varieties of the crops to be treated under this permit has not been fully evaluated. It is advisable, therefore, to only treat a small number of plants to ascertain their reaction before treating the whole crop.

**FOR A FULL COPY OF THIS PERMIT,
PLEASE CONTACT BASF AUSTRALIA LTD ON 1800 501 940**

BASF

PERMIT DETAILS FOR NUMBER – PERMIT 2885



HERBICIDE

Active Constituent: 330 g/L PENDIMETHALIN

Solvent: 578 g/L LIQUID HYDROCARBON

Registered to: **A.E. CRANWELL & SONS**
 Murray Road
 NAIRNE 5252 SA

FOR MINOR OFF-LABEL-USE OF A REGISTERED AGVET CHEMICAL PRODUCT

PERMIT NUMBER - PER2885

This permit is issued under the Agvet Code, of the relevant jurisdictions, to the person stated above. The holder of the permit must comply with all requirements as specified in the Agvet Code. A summary of the key requirements are that the holder must:

- supply any requested information to the NRA;
- inform the NRA if they become aware of any relevant information concerning the uses dealt with by this permit;
- comply with a lawful direction or requirement of an inspector.

This permit for the reasons given below, allows any person listed in **1. Persons** to use the products listed in **2. Products** for the minor off-label use specified in **3. Directions for Use** in the jurisdictions listed in **4. States**.

If this permit were not issued use of the products as specified in this permit would constitute an offence under the Agvet Codes.

The persons listed in **1. Persons** must comply with all conditions listed in CONDITIONS OF PERMIT to be effectively covered by this permit.

THIS PERMIT IS IN FORCE FROM 1 NOVEMBER 1999 TO 31 OCTOBER 2002.

It is in force until it expires or it is cancelled, suspended or surrendered.

REASON FOR ISSUE OF PERMIT

The product 'STOMP 330E Herbicide' containing the active pendimethalin is currently registered for the pre-emergent control of various weeds of several vegetable crops, including onions and some brassica vegetables. Limited products are currently registered for the control of weeds such as wireweed on leeks and brussel sprouts. This permit is issued to allow the off-label use of 'STOMP 330E Herbicide' on leeks and brussel sprouts for the control of wireweed in a manner consistent with other similarly approved use patterns for brassica and onion crops by the permit holder, A.E. Cranwell & Sons. This is a renewal of a previously issued NRA permit PER1794.

1. Persons

Employees or persons contracted by A.E. Cranwell & Sons.

2. Products

STOMP 330E HERBICIDE

Containing: 330 g/L PENDIMETHALIN
 as its only active constituent.

3. Directions for Use

Crop	Pest	Rate
BRUSSEL SPROUTS (PRE-TRANSPLANT TREATMENT). LEEKS.	PRE-EMERGENT WEED CONTROL (IE. WIREWEED).	Apply at a rate of 2 L product per hectare. Apply at a rate of 1 L product per hectare.

Critical Use Comments:

BRUSSEL SPROUTS – APPLY AS A PRE-TRANSPLANT TREATMENT. DO NOT APPLY AFTER TRANSPLANTING AS CROP DAMAGE MAY RESULT. INCORPORATE INTO THE SOIL WITH IRRIGATION OR RAIN WITHIN ONE DAY OF APPLICATION.

LEEKS – APPLY EITHER; PRE-EMERGENCE, IMMEDIATELY AFTER SOWING UNTIL JUST PRIOR TO EMERGENCE, OR POST-EMERGENCE, FROM THE FIRST TRUE LEAF UNTIL THE 3 LEAF STAGE.

WITHHOLDING PERIOD:

DO NOT APPLY LATER THAN 60 DAYS BEFORE HARVEST.

4. States

SA only.

CONDITIONS OF PERMIT

General Conditions

THIS PERMIT provides for the use of a product in a manner other than specified on the approved label of the product. Unless otherwise stated in this permit, the use of the product must be in accordance with instructions on its label. PERSONS who wish to prepare for use and/or use the products for the purposes specified in this permit must read, or have read to them, the permit particularly the information included in DETAILS OF PERMIT and CONDITIONS OF PERMIT.

THIS PERMIT has been granted in response to requests from persons other than the manufacturers of products which have been included in this permit. When assessing the proposed use the NRA will often seek advice from these manufacturers. As these manufacturers have not sought this permit, they should not be held responsible for the use of their products as specified in this permit.

The maximum area that can be treated under this permit per season is 25ha leeks and 40ha brussel sprouts.

**FOR A FULL COPY OF THIS PERMIT,
 PLEASE CONTACT BASF AUSTRALIA LTD ON 1800 501 940**

BASF

PERMIT DETAILS FOR NUMBER – PERMIT 2987

 **STOMP[®] 330E**

HERBICIDE

Active Constituent: 330 g/L PENDIMETHALIN

Solvent: 578 g/L LIQUID HYDROCARBON

Registered to: DOUG MARKS C/O AUSTRALIAN ONION INDUSTRY ASSOCIATION
P.O Box 1459
Murray Bridge SA 5253

FOR MINOR OFF-LABEL-USE OF A REGISTERED AGVET CHEMICAL PRODUCT

PERMIT NUMBER - PER2987

This permit is issued under the Agvet Code, of the relevant jurisdictions, to the person stated above. The holder of the permit must comply with all requirements as specified in the Agvet Code. A summary of the key requirements are that the holder must:

- supply any requested information to the NRA;
- inform the NRA if they become aware of any relevant information concerning the uses dealt with by this permit;
- comply with a lawful direction or requirement of an inspector.

This permit for the reasons given below, allows any person listed in **1. Persons** to use the products listed in **2. Products** for the minor off-label use specified in **3. Directions for Use** in the jurisdictions listed in **4. States**.

If this permit were not issued use of the products as specified in this permit would constitute an offence under the Agvet Codes.

The persons listed in **1. Persons** must comply with all conditions listed in CONDITIONS OF PERMIT to be effectively covered by this permit.

THIS PERMIT IS IN FORCE FROM 8 JUNE 2000 TO 30 APRIL 2002.

It is in force until it expires or it is cancelled, suspended or surrendered.

REASON FOR ISSUE OF PERMIT

There are currently no registered alternatives for onion growers for pre and post emergent control of broadleaf weeds and annual grasses including wireweed.

Wireweed is difficult to control and is a problem for onion growers. Apart from crop competition effecting yields, wireweed can choke plants out at harvest, making either hand or machine harvesting impossible.

1. Persons

Persons generally.

2. Products

STOMP 330E HERBICIDE

Containing: 330 g/L PENDIMETHALIN
as its only active constituent.

3. Directions for Use

Crop	Pest	Rate
ONION	PRE- AND POST-EMERGENT CONTROL OF BROADLEAF WEEDS AND ANNUAL GRASSES INCLUDING: WIREWEED (<i>Polygonum aviculare</i>), PIGWEED (<i>Portulaca oleracea</i>)	0.75 - 2 L/ha

Critical Use Comments:

Apply by ground rig or aircraft.

NOTE: Aerial application may only be undertaken in situations where ground equipment cannot access planted fields due to adverse weather conditions (ie. following recent rains). See label for water rates.

Apply STOMP to a fine firm seed bed free of ridges, clods and trash within 2 days of sowing.

STOMP can be leached into the seed zone, but needs incorporation to work effectively.

For overhead irrigation, avoid leaching by applying to moist soil. DO NOT water heavily (greater than 12mm) for at least 4 days after application and do not apply if heavy rain likely within a week of application.

For furrow irrigation apply to dry soil, then irrigate as soon as possible after application (within 5 days).

DO NOT apply more than 3 times per season.

Precaution:

Depth of sowing is critical, must be sown to a depth of at least 15mm with press wheels or rollers behind planter to ensure coverage and compaction.

STOMP can be leached to the seed zone, to avoid this apply to moist soil. For pre-emergent applications do not water heavily (greater than 12 mm) for at least 5 days after application and do not apply if heavy rain is likely after application.

Heavy/high organic matter soils: Apply 1-2L/ha pre-emergence within 2 days of planting, followed by 1-1.5L/ha post-emergence at 2 leaf stage (may yellow onion).

Light/sand soils: Apply 0.75-1L/ha post emergence at 4-5 leaf stage with 1-2 further applications of 0.75-1L/ha as needed throughout the season (approx 3-4 weeks apart).

PERMIT DETAILS FOR NUMBER – PERMIT 2987

DO NOT use a pre-emergent applications on sandy soils, use post emergent rates only.

DO NOT disturb the soil by rolling or harrowing after Stomp has been applied.

Apply to moist soil, after rain or irrigation.

DO NOT apply early to shallow sown onions (less than 10mm).

Avoid applying STOMP to area where water logging is likely to occur.

A total of no more than 3 L/ha should be applied to the crop in one season.

Pre-emergent or early post-emergent use can result in crop damage, if heavy rain falls within a week of application.

Withholding Period:

Not required when used as directed.

4. States

NSW, SA, WA only.

CONDITIONS OF PERMIT

General Conditions

THIS PERMIT provides for the use of a product in a manner other than specified on the approved label of the product. Unless otherwise stated in this permit, the use of the product must be in accordance with instructions on its label.

PERSONS who wish to prepare for use and/or use the products for the purposes specified in this permit must read, or have read to them, the permit particularly the information included in DETAILS OF PERMIT and CONDITIONS OF PERMIT.

IN DECIDING whether or not to issue this permit the NRA must assess the use against many known and uncertain scientific and other factors. The NRA is satisfied that the approved use will not cause an undue hazard to human health and the environment.

However, users should undertake the use knowing there is no guarantee that the use will be effective to the extent expected by users, that no crop damage may result, or the use would not jeopardise trade.

Permit holder (AOIA):

- The permit holder must immediately advise the NRA of any adverse effects that they become aware of from use under this permit.
- The permit holder must, within 18 months of the issue of this permit, provide to the NRA a report which includes the following details from at least 1 grower utilizing this permit in each of the onion growing areas; (a) details of herbicide management including rates, number of applications used (b) area treated (c) soil type and any adverse effects on the crop (d) an estimate of effectiveness.

PERMIT DETAILS FOR NUMBER – PERMIT 3022

 **STOMP[®] 330E**

HERBICIDE

Active Constituent: 330 g/L PENDIMETHALIN

Solvent: 578 g/L LIQUID HYDROCARBON

Registered to: **BOTANICAL RESOURCES AUSTRALIA PTY LTD
8 GREGORY STREET
SANDY BAY, HOBART 7005 TAS**

FOR MINOR OFF-LABEL-USE OF A REGISTERED AGVET CHEMICAL PRODUCT

PERMIT NUMBER - PER3022

This permit is issued under the Agvet Code, of the relevant jurisdictions, to the person stated above. The holder of the permit must comply with all requirements as specified in the Agvet Code. A summary of the key requirements are that the holder must:

- supply any requested information to the NRA;
- inform the NRA if they become aware of any relevant information concerning the uses dealt with by this permit;
- comply with a lawful direction or requirement of an inspector.

This permit for the reasons given below, allows any person listed in **1. Persons** to use the products listed in **2. Products** for the minor off-label use specified in **3. Directions for Use** in the jurisdictions listed in **4. States**.

If this permit were not issued use of the products as specified in this permit would constitute an offence under the Agvet Codes.

The persons listed in **1. Persons** must comply with all conditions listed in CONDITIONS OF PERMIT to be effectively covered by this permit.

THIS PERMIT IS IN FORCE FROM 3 APRIL 2001 TO 31 MARCH 2003.

It is in force until it expires or it is cancelled, suspended or surrendered.

REASON FOR ISSUE OF PERMIT

To allow for the use of this product to control weeds in pre-emergent and post-emergent situations as they occur in pyrethrum crops in South Australia.

1. Persons

J and FL Buckley and Sons, PO Box 215, Mt Gambier SA.

2. Products

STOMP 330E HERBICIDE

Containing: 330 g/L PENDIMETHALIN
as its only active constituent.

3. Directions for Use

Crop	Pest	Rate
PYRETHRUM	PRE-EMERGENCE AND EARLY POST EMERGENCE OF A WIDE RANGE OF WEEDS.	2-5 L/ha applied by boom spray.

Critical Use Comments:

DO NOT APPLY MORE THAN 2 - 3 APPLICATIONS PER YEAR.

WITHHOLDING PERIOD:

NOT REQUIRED WHEN USED AS DIRECTED.

4. States

SA ONLY.

CONDITIONS OF PERMIT

THIS PERMIT provides for the use of a product in a manner other than specified on the approved label of the product. Unless otherwise stated in this permit, the use of the product must be in accordance with instructions on its label.

PERSONS who wish to prepare for use and/or use the products for the purposes specified in this permit must read, or have read to them, the permit particularly the information included in DETAILS OF PERMIT and CONDITIONS OF PERMIT.

PERMIT DETAILS FOR NUMBER – PERMIT 3094

 **STOMP[®] 330E**

HERBICIDE

Active Constituent: 330 g/L PENDIMETHALIN

Solvent: 578 g/L LIQUID HYDROCARBON

Registered to: **G & D ELLEMENT
LOT 113 WATTLEUP ROAD
WATTLEUP 6166 WA**

FOR MINOR OFF-LABEL-USE OF A REGISTERED AGVET CHEMICAL PRODUCT

PERMIT NUMBER - PER3094

This permit is issued under the Agvet Code, of the relevant jurisdictions, to the person stated above. The holder of the permit must comply with all requirements as specified in the Agvet Code. A summary of the key requirements are that the holder must:

- supply any requested information to the NRA;
- inform the NRA if they become aware of any relevant information concerning the uses dealt with by this permit;
- comply with a lawful direction or requirement of an inspector.

This permit for the reasons given below, allows any person listed in **1. Persons** to use the products listed in **2. Products** for the minor off-label use specified in **3. Directions for Use** in the jurisdictions listed in **4. States**.

If this permit were not issued use of the products as specified in this permit would constitute an offence under the Agvet Codes.

The persons listed in **1. Persons** must comply with all conditions listed in CONDITIONS OF PERMIT to be effectively covered by this permit.

THIS PERMIT IS IN FORCE FROM 9 FEBRUARY 2000 TO 31 OCTOBER 2002.

It is in force until it expires or it is cancelled, suspended or surrendered.

REASON FOR ISSUE OF PERMIT

The product "STOMP 330E Herbicide" containing pendimethalin is currently registered for pre-emergent weed control in several vegetable crops including onions and some brassica vegetable species. Limited products are registered for the control of weeds in leeks. This permit is issued to allow the off-label use of "STOMP" on leeks to control wireweed and other annual and broadleaved weeds in a manner consistent with other approved use patterns. This permit is similar to PER2885.

1. Persons

Employees of G and D Ellement.

2. Products

STOMP 330E HERBICIDE

Containing: 330 g/L PENDIMETHALIN
as its only active constituent.

3. Directions for Use

Crop	Pest	Rate
LEEKS	PRE-EMERGENT WEED CONTROL (eg. Wireweed)	Apply a maximum of 1L/ha

Critical Use Comments:

Apply either; Pre-emergence, immediately after sowing until just prior to sowing, OR Post-emergence, from the first true leaf until the 3 leaf stage.

Withholding Period:

DO NOT harvest for 60 days since final application.

4. States

WA only.

CONDITIONS OF PERMIT

General Conditions

THIS PERMIT provides for the use of a product in a manner other than specified on the approved label of the product. Unless otherwise stated in this permit, the use of the product must be in accordance with instructions on its label.

PERSONS who wish to prepare for use and/or use the products for the purposes specified in this permit must read, or have read to them, the permit particularly the information included in DETAILS OF PERMIT and CONDITIONS OF PERMIT.

PERMIT DETAILS FOR NUMBER – PERMIT 3471



HERBICIDE

Active Constituent: 330 g/L PENDIMETHALIN

Solvent: 578 g/L LIQUID HYDROCARBON

Registered to: **J & S YOUL & SON
 SYMMONS PLAINS
 PO BOX 21
 PERTH 7300 TAS**

FOR MINOR OFF-LABEL-USE OF A REGISTERED AGVET CHEMICAL PRODUCT

PERMIT NUMBER - PER3471

This permit is issued under the Agvet Code, of the relevant jurisdictions, to the person stated above. The holder of the permit must comply with all requirements as specified in the Agvet Code. A summary of the key requirements are that the holder must:

- supply any requested information to the NRA;
- inform the NRA if they become aware of any relevant information concerning the uses dealt with by this permit;
- comply with a lawful direction or requirement of an inspector.

This permit for the reasons given below, allows any person listed in **1. Persons** to use the products listed in **2. Products** for the minor off-label use specified in **3. Directions for Use** in the jurisdictions listed in **4. States**.

If this permit were not issued use of the products as specified in this permit would constitute an offence under the Agvet Codes.

The persons listed in **1. Persons** must comply with all conditions listed in CONDITIONS OF PERMIT to be effectively covered by this permit.

THIS PERMIT IS IN FORCE FROM 14 JULY 2000 to 13 JULY 2002.

It is in force until it expires or it is cancelled, suspended or surrendered.

REASON FOR ISSUE OF PERMIT

Weed control in albus lupins is very difficult in Tasmania, and without it the crop is smothered. It also leads to contamination of lupin seed with weed seeds and discolouration of the lupin seed, both of which makes the crop un-saleable for human consumption.

There are a 4 pre-emergent-weed herbicides registered for use in lupins (including pendimethalin), but these are for narrow leaf lupins (*Lupinus angustifolius*) and not albus lupins (*L. albus*). There is a definite difference in species reaction to these herbicides, so not all can be used on albus lupins. Hence only one herbicide (Eclipse: metosulam) is specifically registered for use in albus lupins, and only in WA.

At this stage, chemical companies are not willing to support registration on albus lupins in Tasmania, given the very different soil types and climatic conditions in Tasmania (e.g. heavy soil and wet, cold conditions), compared to the currently registered areas for narrow leaf lupins (e.g. WA, sandy soils and dry, warm conditions).

Currently simazine (Group-C) is used and whilst it gives reasonable weed control, it does not control wireweed or late wild-radish germinations. Hence the need for pendimethalin (Group-D) use under a permit [and also metosulam (Group-B), to avoid weed resistance developing].

1. Persons

Persons generally.

2. Products

STOMP 330E HERBICIDE

Containing: 330 g/L PENDIMETHALIN
 as its only active constituent.

3. Directions for Use

Crop	Pest	Rate
ALBUS LUPINS	WIREWEED, ANNUAL RYEGRASS AND SUPPRESSION OF WILD OATS.	Apply at maximum of 2 L – 3 L per hectare by boomspray. Apply the lower rate in lighter soils and the higher rate in heavier soils.

Critical Use Comments:

Apply prior to crop emergence.

DO NOT apply more than 1 application per year.

Take note of the label warnings about application and incorporation in heavy soils and in wet, cold conditions.

Also take note of restrictions in planting of crops following pendimethalin application (see General Instructions on the label).

PERMIT DETAILS FOR NUMBER – PERMIT 3471**Withholding Period:**

NOT REQUIRED WHEN USED AS DIRECTED.

4. States

TAS only.

CONDITIONS OF PERMIT

THIS PERMIT provides for the use of a product in a manner other than specified on the approved label of the product. Unless otherwise stated in this permit, the use of the product must be in accordance with instructions on its label.

PERSONS who wish to prepare for use and/or use the products for the purposes specified in this permit must read, or have read to them, the permit particularly the information included in DETAILS OF PERMIT and CONDITIONS OF PERMIT.

TO AVOID CROP DAMAGE:

The sensitivity of some species and varieties of the crops to be treated under this permit has not been fully evaluated. It is advisable, therefore, to only treat a small number of plants to ascertain their reaction before treating the whole crop.

Export of Produce:

Exported produce or animals must have appropriate residue tolerance limits established in the importing countries and any residues must not exceed the tolerance limits.

PERMIT DETAILS FOR NUMBER – PERMIT 3547The logo for STOMP 330E herbicide. It features a stylized green and blue leaf icon to the left of the word "STOMP" in large, bold, black capital letters. To the right of "STOMP" is the number "330E" in a similar large, bold, black font.**HERBICIDE**

Active Constituent: 330 g/L PENDIMETHALIN

Solvent: 578 g/L LIQUID HYDROCARBON

Registered to: STATE FORESTS OF NEW SOUTH WALES -
HARDWOOD PLANTATIONS
123 West High Street
COFFS HARBOUR 2450 NSW

FOR MINOR OFF-LABEL-USE OF A REGISTERED AGVET CHEMICAL PRODUCT**PERMIT NUMBER - PER3547**

This permit is issued under the Agvet Code, of the relevant jurisdictions, to the person stated above. The holder of the permit must comply with all requirements as specified in the Agvet Code. A summary of the key requirements are that the holder must:

- supply any requested information to the NRA;
- inform the NRA if they become aware of any relevant information concerning the uses dealt with by this permit;
- comply with a lawful direction or requirement of an inspector.

This permit for the reasons given below, allows any person listed in **1. Persons** to use the products listed in **2. Products** for the minor off-label use specified in **3. Directions for Use** in the jurisdictions listed in **4. States**.

If this permit were not issued use of the products as specified in this permit would constitute an offence under the Agvet Codes.

The persons listed in **1. Persons** must comply with all conditions listed in CONDITIONS OF PERMIT to be effectively covered by this permit.

THIS PERMIT IS IN FORCE FROM 1 AUGUST 2000 TO 30 AUGUST 2002.

It is in force until it expires or it is cancelled, suspended or surrendered.

REASON FOR ISSUE OF PERMIT

This permit allows the use of herbicides to be used in conjunction with simazine based products to achieve effective control of weeds in eucalypt plantations when applied pre-planting. This is a renewal of a previously issued NRA permit PER2420.

1. Persons

Spray operators who are trained or experienced in the handling, preparation and use of agricultural chemicals.

2. Products

STOMP 330E HERBICIDE

Containing: 330 g/L PENDIMETHALIN
as its only active constituent.

3. Directions for Use

Crop	Pest	Rate
<i>Eucalyptus</i> spp. PRE-PLANTING	BROADLEAF WEED	Apply at a rate of 6-12 L/ha

Critical Use Comments:

LOWER RATE: APPLY IN MIXTURE WITH SIMAZINE AND APPLY AT THE APPROVED RATES (REFER TO PERMIT PER2661 FOR COMPLETE DETAILS).

HIGHER RATE: APPLY IN ISOLATION (NOT WITH SIMAZINE).

4. States

NSW only.

CONDITIONS OF PERMIT

THIS PERMIT provides for the use of a product in a manner other than specified on the approved label of the product. Unless otherwise stated in this permit, the use of the product must be in accordance with instructions on its label.

PERSONS who wish to prepare for use and/or use the products for the purposes specified in this permit must read, or have read to them, the permit particularly the information included in DETAILS OF PERMIT and CONDITIONS OF PERMIT.

TO AVOID CROP DAMAGE:

The sensitivity of some species and varieties of the crops to be treated under this permit has not been fully evaluated. It is

advisable, therefore, to only treat a small number of plants to ascertain their reaction before treating the whole crop.

PERMIT DETAILS FOR NUMBER – PERMIT 3840

 **STOMP[®] 330E**

HERBICIDE

Active Constituent: 330 g/L PENDIMETHALIN

Solvent: 578 g/L LIQUID HYDROCARBON

Registered to: **AUSTRALIAN OLIVE ASSOCIATION LTD**
PO Box 397
ADELAIDE 5001 SA

FOR MINOR OFF-LABEL-USE OF A REGISTERED AGVET CHEMICAL PRODUCT

PERMIT NUMBER - PER3840

This permit is issued under the Agvet Code, of the relevant jurisdictions, to the person stated above. The holder of the permit must comply with all requirements as specified in the Agvet Code. A summary of the key requirements are that the holder must:

- supply any requested information to the NRA;
- inform the NRA if they become aware of any relevant information concerning the uses dealt with by this permit;
- comply with a lawful direction or requirement of an inspector.

This permit for the reasons given below, allows any person listed in **1. Persons** to use the products listed in **2. Products** for the minor off-label use specified in **3. Directions for Use** in the jurisdictions listed in **4. States**.

If this permit were not issued use of the products as specified in this permit would constitute an offence under the Agvet Codes.

The persons listed in **1. Persons** must comply with all conditions listed in CONDITIONS OF PERMIT to be effectively covered by this permit.

THIS PERMIT IS IN FORCE FROM 23 MAY 2001 TO 31 DECEMBER 2003.

It is in force until it expires or it is cancelled, suspended or surrendered.

REASON FOR ISSUE OF PERMIT

Very few products are currently approved for use on olives. The Australian olive industry is currently in its infancy in many states and it is expected that many pest and disease problems will be discovered over the coming seasons as more and more research is conducted into commercial olive production. This permit is issued to allow the off-label use of the herbicide pendimethalin to control various weeds common in many orchard situations. Under this permit it is the aim that the industry will further investigate various pests and diseases and appropriate/effective and sustainable methods of control. This permit is issued to enable weed control whilst that work continues into this new emerging industry.

1. Persons

Persons generally.

2. Products

STOMP 330E HERBICIDE

Containing: 330 g/L PENDIMETHALIN
as its only active constituent.

3. Directions for Use

Crop	Pest	Rate
OLIVES	DWARF AMARANTH, GREEN AMARANTH, ANNUAL RYEGRASS, ASTHMA PLANT, BARNYARD GRASS, CHICKWEED, CROWSFOOT GRASS, DEADNETTLE, FAT HEN, PIGEON GRASS, PIGWEED, PRICKLY LETTUCE, SOWTHISTLE, SUMMER GRASS, WINTER GRASS, WIREWEED, PRAIRIE GRASS AND SPOTTED MEDIC.	Apply at a rate of 9 to 12 L product per hectare.

Critical Use Comments:

- Use the higher rate on medium to heavy textured soils and the lower rate on light textured soils.
- Use a directed spray avoiding spray contact with green bark, fruit and foliage.
- If applied to freshly transplanted trees, soils should be compacted prior to application to avoid contact with roots.
- The product must be incorporated by a minimum of 5mm of rainfall or spray irrigation as soon as possible but no later than 10 days after application or weed control may be reduced.
- For best results, soil surface should be free of weeds, surface litter and clods at the time of application.

Withholding Period:

NOT REQUIRED WHEN USED AS DIRECTED.

4. States

ACT, NSW, QLD, SA, TAS, NT & WA ONLY.

(Note: Victoria is not included in this permit because their 'control-of-use' legislation means that a permit is not required to legalise this off-label use in VIC).

**FOR A FULL COPY OF THIS PERMIT,
PLEASE CONTACT BASF AUSTRALIA LTD ON 1800 501 940**

BASF

PERMIT DETAILS FOR NUMBER – PERMIT 3840**CONDITIONS OF PERMIT**

THIS PERMIT provides for the use of a product in a manner other than specified on the approved label of the product.

Unless otherwise stated in this permit, the use of the product must be in accordance with instructions on its label.

PERSONS who wish to prepare for use and/or use the products for the purposes specified in this permit must read, or have read to them, the permit particularly the information included in DETAILS OF PERMIT and CONDITIONS OF PERMIT.

**FOR A FULL COPY OF THIS PERMIT,
PLEASE CONTACT BASF AUSTRALIA LTD ON 1800 501 940**

BASF

PERMIT DETAILS FOR NUMBER – PERMIT 3856

 **STOMP® 330E**

HERBICIDE

Active Constituent: 330 g/L PENDIMETHALIN

Solvent: 578 g/L LIQUID HYDROCARBON

Registered to: **SOUTH PACIFIC SEEDS PTY LTD**
 48 Willandra Ave.
 GRIFFITH 2680 NSW

FOR MINOR OFF-LABEL-USE OF A REGISTERED AGVET CHEMICAL PRODUCT

PERMIT NUMBER - PER3856

This permit is issued under the Agvet Code, of the relevant jurisdictions, to the person stated above. The holder of the permit must comply with all requirements as specified in the Agvet Code. A summary of the key requirements are that the holder must:

- supply any requested information to the NRA;
- inform the NRA if they become aware of any relevant information concerning the uses dealt with by this permit;
- comply with a lawful direction or requirement of an inspector.

This permit for the reasons given below, allows any person listed in **1. Persons** to use the products listed in **2. Products** for the minor off-label use specified in **3. Directions for Use** in the jurisdictions listed in **4. States**.

If this permit were not issued use of the products as specified in this permit would constitute an offence under the Agvet Codes.

The persons listed in **1. Persons** must comply with all conditions listed in **CONDITIONS OF PERMIT** to be effectively covered by this permit.

THIS PERMIT IS IN FORCE FROM 1 NOVEMBER 2000 TO 30 SEPTEMBER 2002.

It is in force until it expires or it is cancelled, suspended or surrendered.

REASON FOR ISSUE OF PERMIT

Additional pesticides to those currently available for use on various vegetable seed crops are required. Products are either unavailable (not registered) or the registered products available are only suitable for use prior to flowering. This permit is a renewal of previously issued off-label permit PER431, including extension into the states of NSW, Vic & SA.

1. Persons

Employees of and persons contracted by South Pacific Seeds Pty Ltd who are trained or experienced in the handling and use of agricultural chemicals.

2. Products

STOMP 330E HERBICIDE

Containing: 330 g/L PENDIMETHALIN
 as its only active constituent.

3. Directions for Use

Crop	Pest	Rate
BRASSICAS, CARROTS & ONIONS	PRE-EMERGENT WEED CONTROL	Apply at a rate of 1-4 L product per hectare. Apply a maximum of 2 applications per season.

Critical Use Comments:

REFER TO THE CURRENTLY APPROVED PRODUCT LABELS.

4. States

NSW, SA, TAS & VIC ONLY.

CONDITIONS OF PERMIT

Apart from the use pattern specified in this permit the user must adhere to the appropriate remaining instructions included on the approved product labels, specifically protection and precautionary statements, first aid and safety directions, general instructions and storage & disposal instructions.

PERSONS who wish to prepare for use and/or use the products for the purposes specified in this permit must read, or have read to them, the permit particularly the information included in **DETAILS OF PERMIT** and **CONDITIONS OF PERMIT**.

CROP DAMAGE:

The sensitivity of some species and varieties of the crops to be treated under this permit has not been fully evaluated. It is advisable, therefore, to only treat a small number of plants to ascertain their reaction before treating the whole crop. Particular care (and investigation) should be taken with respect to the following actives; cyanazine, oxyfluorfen, simazine, dicamba, terbutryn and diquat. This care and investigation should examine appropriate plant back periods, timing of application, and varying effects on different soil types to ensure that unacceptable crop toxicity does not occur.

Chemical Control Areas (CCAs) / Victoria Only:

The aerial spraying or mister application of 'Lontrel' (clopyralid) and Banvel (dicamba) in CCAs will require a CCA permit. Contact the Department of Natural Resources and Environment for further information.

**FOR A FULL COPY OF THIS PERMIT,
 PLEASE CONTACT BASF AUSTRALIA LTD ON 1800 501 940**

BASF

PERMIT DETAILS FOR NUMBER – PERMIT 4205

 **STOMP[®] 330E**

HERBICIDE

Active Constituent: 330 g/L PENDIMETHALIN

Solvent: 578 g/L LIQUID HYDROCARBON

Registered to: RIVERLAND ANIMAL & PLANT CONTROL BOARD
15 Verrall Crescent
Berri 5343 SA

FOR MINOR OFF-LABEL-USE OF A REGISTERED AGVET CHEMICAL PRODUCT

PERMIT NUMBER - PER4205

This permit is issued under the Agvet Code, of the relevant jurisdictions, to the person stated above. The holder of the permit must comply with all requirements as specified in the Agvet Code. A summary of the key requirements are that the holder must:

- supply any requested information to the NRA;
- inform the NRA if they become aware of any relevant information concerning the uses dealt with by this permit;
- comply with a lawful direction or requirement of an inspector.

This permit for the reasons given below, allows any person listed in **1. Persons** to use the products listed in **2. Products** for the minor off-label use specified in **3. Directions for Use** in the jurisdictions listed in **4. States**.

If this permit were not issued use of the products as specified in this permit would constitute an offence under the Agvet Codes.

The persons listed in **1. Persons** must comply with all conditions listed in CONDITIONS OF PERMIT to be effectively covered by this permit.

THIS PERMIT IS IN FORCE FROM 11 DECEMBER 2000 TO 1 DECEMBER 2003.

It is in force until it expires or it is cancelled, suspended or surrendered.

REASON FOR ISSUE OF PERMIT

This is a renewal of previously issued NRA permit PER926.

1. Persons

Philip James Reddy PO Box 924 Monash 5352
David Robertson 4B Barwell Avenue Barmera SA 5345
Victor Little 4B Barwell Avenue Barmera SA 5345

2. Products

STOMP 330E HERBICIDE
Containing: 330 g/L PENDIMETHALIN
as its only active constituent.

3. Directions for Use

Crop	Pest	Rate
TURF ROADSIDES	GOLDEN DODDER	Apply 600 mL Basta plus 1.3 L Stomp to 100 L water.

Critical Use Comments:

For spot spray only.

Withholding Period:

DO NOT GRAZE OR CUT TREATED AREAS FOR STOCKFOOD FOR 10 WEEKS AFTER APPLICATION.

4. States

SA only.

CONDITIONS OF PERMIT

General Conditions

User(s)

Persons who wish to prepare for use and/or use the products for the purposes specified in this permit must read, or have read to them, the permit particularly the information included in DETAILS OF PERMIT and CONDITIONS OF PERMIT.

Apart from the uses dealt with in this permit users must comply with the instructions on the approved label of the registered product, particularly those instructions relating to protection, precaution, safety directions, first aid and storage and disposal.

PERMIT DETAILS FOR NUMBER – PERMIT 4541

 **STOMP[®] 330E**

HERBICIDE

Active Constituent: 330 g/L PENDIMETHALIN

Solvent: 578 g/L LIQUID HYDROCARBON

**Registered to: FLOWER INDUSTRY ASSOCIATION - TASMANIA INC.
16 William Street
PERTH TAS 7300**

FOR MINOR OFF-LABEL-USE OF A REGISTERED AGVET CHEMICAL PRODUCT

PERMIT NUMBER - PER4541

This permit is issued under the Agvet Code, of the relevant jurisdictions, to the person stated above. The holder of the permit must comply with all requirements as specified in the Agvet Code. A summary of the key requirements are that the holder must:

- supply any requested information to the NRA;
- inform the NRA if they become aware of any relevant information concerning the uses dealt with by this permit;
- comply with a lawful direction or requirement of an inspector.

This permit for the reasons given below, allows any person listed in **1. Persons** to use the products listed in **2. Products** for the minor off-label use specified in **3. Directions for Use** in the jurisdictions listed in **4. States**.

If this permit were not issued use of the products as specified in this permit would constitute an offence under the Agvet Codes.

The persons listed in **1. Persons** must comply with all conditions listed in CONDITIONS OF PERMIT to be effectively covered by this permit.

THIS PERMIT IS IN FORCE FROM 10 SEPTEMBER 2001 TO 9 SEPTEMBER 2006.

It is in force until it expires or it is cancelled, suspended or surrendered.

REASON FOR ISSUE OF PERMIT

There are a very limited number of herbicides available for use on flower bulb crops such as Tulips, Lilliums, Iris, Daffodil, Gladiolus and Freesias. Currently only simazine (2 products) and diuron (3 products) are registered for such use: diuron in Daffodils, Gladiolus and Tulips, and simazine for Gladiolus only.

Hence extra herbicides are required, to provide a rotation of herbicide groups (as part of resistance management: simazine and diuron are both Group-C)), to extend the weeds-controlled and crop spectrum, and to enable post-emergence weed control. A well-considered and well-documented strategy for diverse chemical weed control in flower-bulb crops has been proposed, including a variation of herbicide groups (C, D, E & K).

Pendimethalin (Group-D) is required for pre-emergent-weed control, particularly of wireweed. Pendimethalin is considerably more effective against wireweed than other herbicides used. Wireweed both competes for crop resources and causes significant difficulties at harvest. Also, pendimethalin gives an alternative to Group-C herbicides, which are widely used, and so help avoid such resistance developing in the target weeds.

This permit covers the use of pendimethalin (applied pre-emergence-crop and weed) for tulip, lillium, iris, daffodil and gladiolus.

1. Persons

Persons generally.

2. Products

STOMP 330E HERBICIDE

Containing: 330 g/L PENDIMETHALIN as its only active constituent.

3. Directions for Use

Crop	Pest	Rate
TULIP, LILIUM, IRIS, DAFFODIL AND GLADIOLUS.	CONTROL OR SUPPRESSION OF: AWNLESS BARNYARD GRASS, CHICKWEED, COMMON BITTERCRESS, DEAD NETTLE, FAT HEN, PIGWEED, SHEPHERD'S PURSE WIREWEED. SUPPRESSION ONLY OF: ANNUAL POA, BLACKBERRY NIGHTSHADE, FUMITORIES, SOWTHISTLES, WILD RADISH AND WILD TURNIP.	1.5 – 3 L/ha

Critical Use Comments:

Apply pre-emergence-weed/pre-emergence-crop, in a high volume spray. Apply from immediately after sowing, until just prior to crop emergence. Use the higher rates on heavy textured or highly organic soils. Apply to a fine, firm seedbed free of clods and trash. DO NOT use on sandy soils. Avoid applying product to areas where water logging is likely to occur.

PERMIT DETAILS FOR NUMBER – PERMIT 4541

Avoid soils with organic matter content greater than 6%, as inconsistent weed control will occur. For optimum performance, incorporate with 12 to 25 mm of spray irrigation within one day of application. In adverse conditions, apply in conjunction with other herbicides, as advised by a qualified crop advisor, to ensure that an adequate level of weed control is achieved. DO NOT re-plant bulbs within 5 months of application.

Withholding Period:

NOT APPLICABLE.

4. States

TAS only.

CONDITIONS OF PERMIT

THIS PERMIT has been granted in response to requests from persons other than the manufacturers of products which have been included in this permit. When assessing the proposed use the NRA will often seek advice from these manufacturers. As these manufacturers have not sought this permit, they should not be held responsible for the use of their products as specified in this permit.

THIS PERMIT provides for the use of a product in a manner other than specified on the approved label of the product. Unless otherwise stated in this permit, the use of the product must be in accordance with instructions on its label.

IN DECIDING whether or not to issue this permit the NRA must assess the use against many known and uncertain scientific and other factors. The NRA is satisfied that the approved use will not cause an undue hazard to human health and the environment. However, users should undertake the use knowing there is no guarantee that the use will be effective to the extent expected by users, that no crop damage may result, or the use would not jeopardise trade.

PERSONS who wish to prepare for use and/or use the products for the purposes specified in this permit must read, or have read to them, the permit particularly the information included in DETAILS OF PERMIT and CONDITIONS OF PERMIT.

TO AVOID CROP DAMAGE:

The sensitivity of some species and varieties of the crops to be treated under this permit has not been fully evaluated. It is advisable, therefore, to only treat a small number of plants to ascertain their reaction before treating the whole crop.

PERMIT DETAILS FOR NUMBER – PERMIT 4665



STOMP[®] 330E

HERBICIDE

Active Constituent: 330 g/L PENDIMETHALIN
Solvent: 578 g/L LIQUID HYDROCARBON

Registered to: Thorndon Park Produce Co Pty Ltd
Lot 6 Waterloo Corner Road
Waterloo Corner SA 5110

FOR MINOR OFF-LABEL-USE OF A REGISTERED AGVET CHEMICAL PRODUCT

PERMIT NUMBER - PER4665

This permit is issued under the Agvet Code, of the relevant jurisdictions, to the person stated above. The holder of the permit must comply with all requirements as specified in the Agvet Code. A summary of the key requirements are that the holder must:

- supply any requested information to the NRA;
- inform the NRA if they become aware of any relevant information concerning the uses dealt with by this permit;
- comply with a lawful direction or requirement of an inspector.

This permit for the reasons given below, allows any person listed in **1. Persons** to use the products listed in **2. Products** for the minor off-label use specified in **3. Directions for Use** in the jurisdictions listed in **4. States**.

If this permit were not issued use of the products as specified in this permit would constitute an offence under the Agvet Codes.

The persons listed in **1. Persons** must comply with all conditions listed in CONDITIONS OF PERMIT to be effectively covered by this permit.

THIS PERMIT IS IN FORCE FROM 9 JUNE 2001 TO 15 MAY 2002.

It is in force until it expires or it is cancelled, suspended or surrendered.

REASON FOR ISSUE OF PERMIT

There are no herbicides registered for use in spring onions. Nor are there herbicides registered for similar crops such as shallots or leeks.

Hence consideration of herbicides registered for use in onions is a logical alternative, and pendimethalin (STOMP 330E) is one of this group.

This permit is a renewal of previously issued permit PER2183.

1. Persons

Persons generally.

2. Products

STOMP 330E Herbicide

Containing 330 g/L PENDIMETHALIN as their only active constituent.

3. Directions for Use

Crop	Pest	Rate
SPRING ONIONS	GENERAL WEED CONTROL	Apply 1 L to 2 L per hectare of the product from the first true leaf until the 3 leaf stage.

Critical Use Comments:

CAUTION: There may be different solvents in the different pendimethalin products. Hence, if onions are not on a product's label, it would be wise to test the product first, in case the different solvent may damage the crop.

Repeat applications may be made after the 1 leaf up to the 3 leaf stage, providing the total usage of product does not exceed 3 L/ha. Avoid applying the product to areas where water logging is likely to occur.

Soils containing a high percentage of organic matter can result in poor control. It is recommended that application to soils containing a high percentage of organic matter (greater than 6%) be avoided.

Crop injury may result if cold, wet weather follows planting, or if the product is applied to a poorly prepared seedbed.

For best results, seedbeds should be free of weeds, trash and clods at the time of application.

Withholding Period:

NOT APPLICABLE IF USED AS DIRECTED ON THE LABEL.

4. States

SA only.

PERMIT DETAILS FOR NUMBER – PERMIT 4665**CONDITIONS OF PERMIT**

THIS PERMIT has been granted in response to requests from persons other than the manufacturers of products which have been included in this permit. When assessing the proposed use the NRA will often seek advice from these manufacturers. As these manufacturers have not sought this permit, they should not be held responsible for the use of their products as specified in this permit.

THIS PERMIT provides for the use of a product in a manner other than specified on the approved label of the product. Unless otherwise stated in this permit, the use of the product must be in accordance with instructions on its label.

IN DECIDING whether or not to issue this permit the NRA must assess the use against many known and uncertain scientific and other factors. The NRA is satisfied that the approved use will not cause an undue hazard to human health and the environment. However, users should undertake the use knowing there is no guarantee that the use will be effective to the extent expected by the users, that no crop damage may result, or the use would not jeopardise trade.

PERSONS who wish to prepare for use and/or use the products for the purposes specified in this permit must read, or have read to them, the permit particularly the information included in DETAILS OF PERMIT and CONDITIONS OF PERMIT.

TO AVOID CROP DAMAGE:

The sensitivity of some species and varieties of the crops to be treated under this permit has not been fully evaluated. It is advisable, therefore, to only treat a small number of plants to ascertain their reaction before treating the whole crop.

NOTE: The recommended rate is low compared to other horticultural or intensive crops (commonly 3 to 4 L/ha). Hence, control of weeds other than Hogweed (Wireweed) cannot be assured.

PERMIT DETAILS FOR NUMBER – PERMIT 4675



STOMP[®] 330E

HERBICIDE

Active Constituent: 330 g/L PENDIMETHALIN
Solvent: 578 g/L LIQUID HYDROCARBON

Registered to: Forest View Produce Pty Ltd
Amiens Road
Pozières 4352 Qld

FOR MINOR OFF-LABEL-USE OF A REGISTERED AGVET CHEMICAL PRODUCT

PERMIT NUMBER - PER4675

This permit is issued under the Agvet Code, of the relevant jurisdictions, to the person stated above. The holder of the permit must comply with all requirements as specified in the Agvet Code. A summary of the key requirements are that the holder must:

- supply any requested information to the NRA;
- inform the NRA if they become aware of any relevant information concerning the uses dealt with by this permit;
- comply with a lawful direction or requirement of an inspector.

This permit for the reasons given below, allows any person listed in **1. Persons** to use the products listed in **2. Products** for the minor off-label use specified in **3. Directions for Use** in the jurisdictions listed in **4. States**.

If this permit were not issued use of the products as specified in this permit would constitute an offence under the Agvet Codes.

The persons listed in **1. Persons** must comply with all conditions listed in CONDITIONS OF PERMIT to be effectively covered by this permit.

THIS PERMIT IS IN FORCE FROM 19 JULY 2001 TO 31 OCTOBER 2002.

It is in force until it expires or it is cancelled, suspended or surrendered.

REASON FOR ISSUE OF PERMIT

Products containing the active pendimethalin are currently registered for the pre-emergent control of various weeds of several vegetable crops, including onions. Limited products are currently registered for the control of weeds in leeks. This permit is issued to allow the off-label use of products containing pendimethalin 330 g/L on leeks for weed control in a manner consistent with similarly approved use patterns for onion crops.

1. Persons

Employees or persons contracted by Forest View Produce Pty Ltd.

2. Products

STOMP 330E Herbicide
Containing: 330 g/L PENDIMETHALIN
as their only active constituent.

3. Directions for Use

Crop	Pest	Rate
LEEKs	PRE-EMERGENT	Apply at a rate
	POST-EMERGENT	1 L product per
	WEED CONTROL	hectare.

4. States

Qld only.

Critical Use Comments:

Apply no later than 3 leaf stage.

Repeat applications may be made providing the total usage of products do not exceed 3 L per hectare.

Withholding Period:

DO NOT APPLY LATER THAN 60 DAYS BEFORE HARVEST.

CONDITIONS OF PERMIT

THIS PERMIT provides for the use of a product in a manner other than specified on the approved label of the product. Unless otherwise stated in this permit, the use of the product must be in accordance with instructions on its label.

PERSONS who wish to prepare for use and/or use the products for the purposes specified in this permit must read, or have read to them, the permit particularly the information included in DETAILS OF PERMIT and CONDITIONS OF PERMIT.

Export of Produce:

Exported produce must have appropriate residue tolerance limits established in the importing countries and any residues must not exceed the tolerance limits.

Acknowledgments:

Collated by HerbiGuide. Phone 08 98444064 for more information.