

CAUTION

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

UNITED FARMERS

CHLORSULFURON**750**

CEREAL HERBICIDE

ACTIVE CONSTITUENT: 750g/kg CHLORSULFURON

GROUP	B	HERBICIDE
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For the control of annual (wimmera) ryegrass and certain broadleaf weeds
 in winter cereal crops.

**Note: This information has been adapted from the
 UFCC Chlorsulfuron 750 Cereal Herbicide label.
 Please consult the label on the pack before use.**

IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USE



UNITED FARMERS
 CO-OPERATIVE

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 Phone 08 9430 2222 Fax 08 9430 2233

D.O.M.:
 BATCH NO:
 APVMA Approval no:



DIRECTIONS FOR USE

RESTRAINTS:

DO NOT store a suspension of United Farmers Chlorsulfuron 750 for more than 2 days otherwise breakdown will occur.

DO NOT store tank mixes of United Farmers Chlorsulfuron 750 with other materials for more than 24 hours as product breakdown may occur.

DO NOT spray if rainfall is expected within 4 hours.

SITUATION & CROP	WEEDS CONTROLLED	STATE	APPLICATION RATE	CRITICAL COMMENTS
PRE SOWING INCORPORATING SOWING WHEAT AND TRITICALE ONLY	Annual (Wimmera) Ryegrass	NSW, Vic, SA, WA only	15 to 20g/ha	Light to medium soils Use highest rate if soil pH is less than 7 For soil pH 7-8.5 use the higher rate when a high weed population is expected from past paddock history. Heavy soils Use the higher rate for soil pH less than 8.5
	Fumitory, Shepherds Purse	NSW, Vic, SA, WA, Tas only	15 or 20g/ha	If paddock history suggests a high weed population use the higher rate
	Wireweed/Hogweed Deadnettle	All States		
	Rough Poppy	NSW, SA, WA, Tas only		
	Stemless Thistle	SA only		
	Soursob	NSW, Vic, SA only	15g/ha	Application should only be made to soils of pH 7.5 or over and should occur after the majority of soursobs have emerged. Soil should be left undisturbed for 1-4 weeks prior to cultivation or sowing. Best results are obtained with early post-emergence applications after crop and weed emergence.
	Capeweed	NSW, Vic, Sa, WA, Tas only	20g/ha	For acidic soils of pH 5.5 or less this product will give a shorter period of control in wet years.
	Paradoxa grass	Qld only		Prior to the sowing rain, apply to dry soil. Incorporation by mechanical means is not necessary prior to the sowing rains.
	Black Bindweed (Climbing Buckwheat)			
	Annual Phalaris	NSW only	20g/ha + 800 mL/ha of UFCC Trifluralin 480	Spray and incorporate into the soil in one pass. If this is not possible the incorporation should take place within 4 hours of spraying. Lengthy delays may cause inferior weed control
	Barley grass	NSW, Tas only		
	Silver grass	Tas only		
	Indian Hedge Mustard	All states	15g/ha	All Weeds Best results are obtained when the soil is wet to a depth of 5 to 7.5cm within 4 weeks of application by rainfall or sprinkler irrigation.
Wild turnip, Mouse-ear Chickweed, Paterson's Curse (Salvation Jane)	NSW, Vic, SA, WA, Tas only			

SITUATION & CROP	WEEDS CONTROLLED	STATE	APPLICATION RATE	CRITICAL COMMENTS
PRE-SOWING INCORPORATING SOWING WHEAT AND TRITICALE ONLY (cont)	Yellow Burweed, Amsinckia	NSW, Vic, SA, WA only	15g/ha	<p>WA Only Application to dry sandy soils should be avoided as rapid leaching may occur with early season rains.</p> <p>SA Only Seek further advice before using rates greater than 15g/ha on light to medium soils of pH 7.0 to 8.5.</p> <p>Conventionally Sown Seeds For soils of pH less than 7.0 apply spray just prior to sowing or in conjunction with the sowing operation. For soils of pH 7.0 or more it is not as critical to time the spray just prior to sowing. Apply spray onto a non-ridged surface free of large clods. A low profile 10cm combine should be used for sowing</p> <p>*Use sowing speeds of 10kph or greater. *Light covering harrows should be used at sowing *If sprayed on to dry soil and sowing is delayed incorporate immediately after spraying to prevent losses caused by wind erosion.</p>
	Charlock	Vic, SA, Tas only		
	King Island Melilot	Vic, SA, only		
	Storks bill (Wild Geranium)	Vic, SA, WA, Tas only		
	Pimpernels	NSW, Vic, SA, Tas only		
	Lincoln Weed, Common Iceplant, Ball Mustard	SA only		
	Turnip Weed	QLD, SA only		
	Guildford Grass (Onion Grass)	WA only		
	Loosestrife	Vic		
Direct Drilled Crops	Corn Gromwell (Sheepweed, White Ironweed)	Qld, NSW, Vic, SA, WA only	20g/ha	<p>*Apply tank mixed with United Farmers Glyphosate in accordance with the label recommendations. Crops DO NOT use more than once in any season on any one crop</p>
	Three-cornered Jack Doublegee (Spiny Emex)	NSW, SA, Vic, WA only		
	Docks	NSW, SA, Vic, WA, Tas only		
	Fat-hen	NSW, Tas only		
	Cape Tulip	WA only		
	Spear Thistle, Slender Thistle	Tas only		
	Prickly Lettuce (Whip Thistle) Tree Hogweed	Vic, SA only		
	Saffron Thistle (Suppression only)	NSW, SA, Vic, Qld, Tas only		
	Brome Grass	NSW, SA, Vic, WA, Tas only		
	New Zealand Spinach	Qld only		
If populations are 20 plants/m ² or less this rate gives suppression only.	Mintweed, Saltbush, African Turnip Weed, Slender Celery	NSW, Qld only	20g/ha	

SITUATION & CROP	WEEDS CONTROLLED	STATE	APPLICATION RATE	CRITICAL COMMENTS
POST CROP AND WEED EMERGENCE WHEAT, BARLEY, OATS, TRITICALE AND CEREAL RYE	Annual (Wimmera) Ryegrass	NSW, Vic, SA, WA only	20 or 25g/ha	Light to Medium soils Less than pH7.
			15 or 20g/ha	Light to Medium soils PH 7-8.5
			20 or 25g/ha	Heavy soils PH 8.5 or less
				The higher rate should be used under heavy weed pressure. Application should be no later than the 3 leaf stage of Annual Ryegrass. Application of United Farmers Chlorsulfuron 750 to Annual Ryegrass 2 leaf or great may result in reduced efficiency when applied with water volumes less than 50L/ha.
	Corn Gromwell (Sheepweed, White Ironweed)	NSW, Vic, SA, WA only	20g/ha	Apply at cotyledon to 2 leaf stage. Suppression will only occur when applied at a later stage
	Black Bindweed (Climbing Buckwheat)	Qld, NSW only		Application should be made at cotyledon to 2 leaf stage of weed.
	Hoary Cress	Vic, SA, Tas only		Application should take place only when plants are fully emerged.
	Wild Radish	All States	15 or 20g/ha	Annual Ryegrass, Wild Radish and Deadnettle. Under heavy weed pressure use the higher rate. Wild Radish Control of subsequent germinations may be accomplished by a follow-up spray with a suitable herbicide.
	Dead nettle	Qld, NSW, Vic, SA, Tas only		
	Mustards	All States	15g/ha	All Weeds Best results are obtained when the soil is wet to a depth of 5 to 7.5cm within 4 weeks of application by rainfall or sprinkler irrigation. Results may be slow to appear and weeds may only be stunted or when weeds are not actively growing suppressed if treatment is delayed or due to adverse conditions.
	Wild Turnip Paterson's Curse (Salvation Jane)	NSW, Vic, SA, WA, Tas only		
	Yellow Burweed/ Amsinckia	NSW, SA, Vic, WA only		
	Docks, Storksbill (Wild Geranium)	Vic, SA, WA, Tas only		
	Turnip Weed	Qld, NSW, SA only		
	Mouse-ear Chickweed	NSW, SA, Vic, Tas only	15 kg/ha	All Cereals DO NOT spray more than once in a season in any one crop. Wheat, Triticale and Cereal Rye Application should be made after crop Emergence when weeds are small and growing actively (ANNUAL RYEGRASS NO MORE THAN 3 LEAFS, BROADLEAF WEEDS no more than 5cm in height or diameter). NOTE: For Black Bindweed refer to specific recommendations.
	Charlock, Pimpernels	NSW, SA, Vic, Tas only		
Ball Mustard	SA only			
Guildford Grass (Onion Grass)	WA only			
Wireweed/Hogweed	All States			
Soursob (Oxalis pes caprae)	NSW, SA, Vic, WA, Tas only	20g/ha	Apply only after the majority of soursobs have emerged.	

SITUATION & CROP	WEEDS CONTROLLED	STATE	APPLICATION RATE	CRITICAL COMMENTS
/ Cont ... POST CROP AND WEED EMERGENCE WHEAT, BARLEY, OATS, TRITICALE AND CEREAL RYE	Denseflower Fumitory (Fumaria densiflora)	NSW, SA, Vic, WA, Tas only	20g/ha	Apply at cotyledon to 2 leaf stage.
	Rough poppy	NSW, SA, Tas, WA Only		
	Mintweed, Saltbush, African Turnip Weed, Slender Celery	NSW, Qld only		Apply at cotyledon to 4 leaf stage
	Staggerweed	NSW, Qld, WA, Tas only	20g/ha	Barley and Oats Application should take place between 2 leaf stage (3 leaf – SA only) and early tillering when weeds are small and actively growing (ANNUAL RYEGRASS NO MORE THAN 3 LEAVES; BROADLEAF WEEDS no more than 5cm in height or diameter. NOTE: See specific recommendations for Black Bindweed. *Always add surfactant.
	Shepherd's Purse	NSW, SA, Vic, WA, Tas only		
	Prickly lettuce (Whip Thistle)	Vic, Tas only		
	Fat-hen	NSW, Tas only		
	Lincoln Weed	SA only		
	Tree Hogweed	Vic only		
	Cape Tulip	WA only		
	New Zealand Spinach	Qld only		
	Spear Thistle	Tas only		
	Matricaria	WA, Tas only		
	Bifora (Carrot Weed) Stemless Thistle	SA only Vic only	25g/ha	

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

WITHHOLDING PERIOD – NOT REQUIRED WHEN USED AS DIRECTED

GENERAL INSTRUCTIONS

1. United Farmers Chlorsulfuron 750 is a systematic herbicide absorbed by the foliage and roots which acts by inhibiting cell division and growth in the tips or roots and shoots of sensitive plants.
2. Careful consideration should be given to soil pH using United Farmers Chlorsulfuron 750. The rate of product breakdown decreases as soil pH increases.
3. United Farmers Chlorsulfuron 750 should not be used on soils of pH 8.6 or higher as the extended soil residual activity could adversely affect crop rotation options beyond normal intervals.
4. United Farmers Chlorsulfuron 750 is intended for use on land with a soil pH of 8.5 or less.

Crops other than wheat, barley, oats, triticale and cereal rye could be extremely sensitive to low concentrations of United Farmers Chlorsulfuron in the soil. To avoid any problems check the crop rotation recommendations.

RESISTANT WEED WARNING

GROUP	B	HERBICIDE
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1. United Farmers Chlorsulfuron 750 Cereal Herbicide is a member of the sulfonyleurea group of herbicides.
2. United Farmers Chlorsulfuron 750 has the *inhibitors of acetolactate synthase* mode of action. For weed resistance management United Farmers Chlorsulfuron 750 is a Group B Herbicide.
3. Naturally occurring weed biotypes which are resistant to United Farmers Chlorsulfuron 750 and other sulfonyleurea herbicides are known to exist. These weed types can dominate the weed population if sulfonyleurea herbicides are repeatedly used. These resistant weed types will **NOT** be controlled by United Farmers Chlorsulfuron 750 or other sulfonyleurea herbicides.
4. Annual Ryegrass biotypes which are resistant to diclofop methyl and other "grass specific" herbicides may also be resistant to United Farmers Chlorsulfuron 750. A resistance check should be conducted prior to using United Farmers Chlorsulfuron 750 on a population resistant to "grass specific herbicides" to ensure that it is still susceptible to United Farmers Chlorsulfuron 750.
5. United Farmers accepts no liability for any losses that may result from the failure to use United Farmers Chlorsulfuron 750 to control resistant weeds as it is difficult to detect the occurrence of resistant weeds prior to use.
6. To prevent or delay the development of resistant weeds, United Farmers Chlorsulfuron 750 should be used in tank mixes (if appropriate) and/or rotations with herbicides having different modes of action effective on the same weed species. The development of resistance is indicated by large numbers of healthy surviving weeds. Preventative measures should be taken to ensure that seed set of these survivors does not occur. Other resistant prevention/delaying strategies can include fallowing, hay cutting, heavy grazing and/or spray topping of pastures.
7. ONLY one application of a sulfonyleurea herbicide should be made a crop, either pre-sowing incorporated by sowing or post crop and weed emergence.
8. If the user suspects the presence of a sulfonyleurea-resistant weed species, United Farmers Chlorsulfuron 750 or other sulfonyleurea herbicides should not be used. Strategies to minimise the risk of herbicide resistance are available from your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or your local United Farmers Sales Representative.

GRAZING ADVICE

1. Grazing of areas treated with United Farmers Chlorsulfuron 750 should be avoided for 24 hours after application to ensure optimum weed control.
2. There is no withholding period application for grazing of areas treated with United Farmers Chlorsulfuron 750.

CROP SAFETY

1. DO NOT use in winter cereal crops which are undersown with legume pasture crops.
2. United Farmers Chlorsulfuron 750 is NOT to be used on furrow or flood irrigated channels.
3. DO NOT apply United Farmers Chlorsulfuron 750 to crops which are stressed by severe weather conditions (eg. drought, waterlogging), excessive soil acidity/alkalinity, poor nutrient status, disease, nematode or insect damage as crop injury may result. Treatment followed by severe weather conditions may cause crop yellowing and growth retardation. Crops will normally recover without loss of yield. Application followed by disease, nematode or insect damage may also result in crop injury.

Barley/Oat Crops:

1. DO NOT apply United Farmers Chlorsulfuron 750 prior to the two leaf stage, Zadok code 12 (three leaf stage – SA only) of the crop.
2. Reduced Barley yields may result if United Farmers Chlorsulfuron 750 is used under waterlogged conditions. However, a greater yield reduction may occur through weed competition and weed seed carryover if the crop is not sprayed under these conditions.

Wheat Crops Only:

1. DO NOT apply to Miling, Kulin or

Cranbrook varieties.

2. DO NOT apply pre-sowing, incorporated with sowing to Avocet and Durati varieties.
3. DO NOT apply pre-sowing, incorporated with sowing to soils of pH 5.5 or less or Banks variety.
4. The variety Vulcan may suffer from suppressed yields on acid soils, particularly under stressful conditions such as Aluminium, Manganese toxicity, Waterlogging and Frosts, etc.

SA Only

1. United Farmers Chlorsulfuron 750 must not be applied to light sandy ridges which are low in organic matter as crop injury may occur.
2. Application of other sulfonylurea herbicides following United Farmers Chlorsulfuron 750 application is not recommended.
3. The use of United Farmers Chlorsulfuron 750 on varieties of what which require an earlier sowing date may suffer some yield suppression under stress conditions (eg. waterlogging, frosts, manganese/aluminium toxicity, etc) if sown later than recommended on acid soils.

CROP ROTATION RECOMMENDATIONS

1. Land which has been previously treated with United Farmers Chlorsulfuron 750 should be rotated to crops other than those listed on the table below.
2. Small scale determination of tolerance of other crops (grown through maturity) should be performed prior to sowing into larger areas. An area treated with United Farmers Chlorsulfuron 750 may be replanted to any of the specific crops after the interval indicated in the following table:

NOTE: The table below applies to all states.

MINIMUM CROPPING INTERVAL (MONTH AFTER APPLICATION)						
Soil pH	0	3	6	9	12	18
6.5 or less	Triticale, Wheat	Cereal Rye	Oats	Barley	Subterranean Clover, Faba beans, Field peas, Linseed, Lucerne, Lupins, Medics**, Rapeseed, Safflower	Maize, Sorghum, Soybeans, Sunflower

NOTE: The tables below apply to Qld, SA, WA and Tas only.

MINIMUM RECROPPING INTERVAL (MONTH AFTER APPLICATION)						
Rainfall Required	Minimum of 700mm					
Soil pH	0	3	9	15	18	22
6.6 – 7.5	Triticale, Wheat	Cereal Rye	Oats, Barley	Japanese Millet, Maize, Panicum Millet, Sorghum, Sunflower, White French Millet	Cotton, Soybeans	Faba beans, Field peas, Linseed, Lucerne, Lupins, Medics** Rapeseed, Safflower, Subterranea n Clover

MINIMUM CROPPING INTERVAL (MONTH AFTER APPLICATION)				
Rainfall Required	Minimum of 700mm			
Soil pH	0	15	18	24 or more
7.6 – 8.5	Triticale, Wheat	Japanese Millet, Maize, Panicum, Millet Sorghum, Sunflowers, White French Millet	Barley, Oats, Cereal Rye	TO ROTATE CROPS TO OTHER THAN CEREAL CROPS (SUCH AS LISTED ABOVE) ONLY IF DURING THE PREVIOUS SEASON A FIELD TEST STRIP OF THE PROPOSED ROTATIONAL CROP HAS BEEN SUCCESSFULLY GROWN TO MATURITY
8.6 & over	United Farmers Chlorsulfuron IS NOT RECOMMENDED FOR SOILS OF THIS pH			

NOTE: The tables below apply to NSW and Vic only.

MINIMUM RECROPPING INTERVAL (MONTH AFTER APPLICATION)					
Soil pH	0	3	9	22	26
6.5 or less	Triticale, Wheat	Cereal Rye	Oats, Barley	Subterranean Clover**, Faba beans, Field peas, Linseed, Lucerne, Lupins, Medics** Rapeseed, Safflower	Maize, Sorghum, Soybeans, Sunflower

MINIMUM RECROPPING INTERVAL (MONTH AFTER APPLICATION)			
Soil pH	0	18	24 or more
7.6 – 8.5	Triticale, Wheat	Barley, Oats, Cereal Rye	ROTATE CROPS TO OTHER THAN CEREAL CROPS (SUCH AS LISTED ABOVE) ONLY IF, DURING THE PREVIOUS SEASON A FIELD TEST STRIP OF THE PROPOSED ROTATIONAL CROP HAS BEEN SUCCESSFULLY GROWN TO MATURITY
8.5 & over	United Farmers chlorsulfuron IS NOT RECOMMENDED FOR SOLS OF THIS pH		

*Soil pH to be determined in the laboratory by using the 1:5 soil:water suspension analysis method.

** This includes natural regeneration of medics and subterranean clover.

SPRAY PREPARATION

Calibrate spraying equipment prior to preparation to ensure accurate and uniform coverage.

United Farmers Chlorsulfuron 750 is a wettable powder formulation packed in water soluble bags which dissolve easily in water. DO NOT handle bags with wet hands or expose to moisture and return unused bags to primary pack. To prepare the spray mixture follow these steps:

1. Partially fill spray tank with water.
2. Add the measured amount of United Farmers Chlorsulfuron 750 to the spray tank with the agitation system turned on.
3. Top up to the correct volume with water.
4. United Farmers Chlorsulfuron 750 TANK MIXES MUST BE KEPT IN

SUSPENSION AT ALL TIMES
AND THEREFORE AGITATION
MUST BE CONTINUOUS.

5. United Farmers CHLORSULFURON must be in complete suspension before the addition of a companion herbicide or surfactant.
6. For use in liquid fertilisers, dissolve United Farmers Chlorsulfuron 750 in water and then thoroughly mix the solution into the liquid fertiliser. Make sure that the fertiliser solution is compatible with United Farmers Chlorsulfuron 750. DO NOT add any surfactants to this solution.
7. Thorough re-agitation is necessary where the prepared spray solutions have been allowed to stand.

USE OF SURFACTANT/WETTING AGENT:

1. Addition of a non-ionic surfactant at a rate of 0.1% v/v (100mL/100L) of final spray volume is required for post-emergent applications.
2. The use of Spray Oils is not recommended with this product.

NOTE: The addition of surfactant/wetting agent is not required when United Farmers Chlorsulfuron 750 is tank mixed with another product which already contains surfactant/wetting agent in the formulation.

GROUND SPRAYING EQUIPMENT:

1. The use of boom spray which has been properly calibrated to a constant speed and rate of delivery is necessary to ensure thorough coverage and uniform spray pattern.
2. Spray overlap should be avoided and spray booms should be shut off while starting, turning slowly or stopping as injury to the crop may result.

A minimum of 30L/ha of prepared spray should be applied.

CLEANING EQUIPMENT:

All spray and mixing equipment should be thoroughly cleaned, removing all traces of United Farmers Chlorsulfuron 750, to avoid subsequent injury to crops other than wheat, triticale, barley, oats or cereal rye.

1. Drain tank. Flush tank, hoses and boom for at least 10 minutes with clean water.
2. Fill the tank with fresh water adding 300mL household bleach (containing 4% chlorine) per 100L water. Flush both the boom and hoses with this solution, then allow to sit for 15 minutes with agitation turned on, then drain.
3. Repeat step 2.
4. Remove nozzles and screens and clean separately. Rinse the tank thoroughly with clean water and flush through hoses and boom to remove any traces of the chlorine bleach.

CAUTION : DO NOT use chlorine bleach with ammonia solutions. Mixing and

application equipment must be rinsed thoroughly with water to remove all traces of liquid fertiliser containing ammonia, ammonium nitrate or ammonium sulphate prior to adding chlorine bleach. Failure to do so will cause the release of a gas with a must chlorine odour which can cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.

COMPATIBILITY:

United Farmers Chlorsulfuron 750 is compatible with the following herbicides: UFCC Paraquat 250, Spray.Seed¹, and United Farmers Glyphosate. United Farmers Chlorsulfuron 750 does not control Wild Oats, United Farmers Chlorsulfuron 750 is also compatible with the broadleaf herbicides MCPA, 2,4-D Amine and 2,4-D Ester as well as being compatible with Trifluralin 480. United Farmers Chlorsulfuron 750 is compatible with the insecticides UFCC Unidime, and UFCC Chlorpyrifos 500.

NOTE: DO NOT add a surfactant or wetting agent when United Farmers Chlorsulfuron 750 is placed in a tank mix with a product which already contains a surfactant/wetter in the formulation.

¹ Not UFCC Trade Name

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

Failure to observe the following may result in injury to or loss of desirable trees or vegetation.

1. DO NOT apply, drain or flush equipment or near desirable plants or on areas where their roots extend to or in locations where the chemical may be washed or moved into contact with their roots.
2. DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray drift on to nearby susceptible plants, adjacent crops, croplands or pastures.

PROTECTION OF WILDLIFE, FISH CRUSTACEA AND ENVIRONMENT:

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

STORAGE AND DISPOSAL:

Store in the closed, original container in a dry, well ventilated area, as cool as possible out of direct sunlight. Store in a locked room or safe place away from children, animals, food, feedstuffs, seed and fertilisers.

Triple or (preferably) pressure rinse before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Break, crush, puncture and bury empty containers in a local authority landfill. If not available bury the containers below 500mm in a disposal pit

specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers should not be burnt.

SAFETY DIRECTIONS:

Avoid contact with eyes and skin. Do not inhale spray mist. Wash hands after use.

FIRST AID:

If poisoning occurs, contact a doctor of Poisons Information Centre phone 13112

**IN EMERGENCY DIAL
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POLICE OR FIRE
BRIGADE**

**FOR SPECIALIST
ADVICE IN AN
EMERGENCY CALL
1800 705 766
(24 HOURS)**