

For Professional Use only.

SAFETY INFORMATION

ROUNDUP XL

Soluble concentrate containing 360 g/L glyphosate, present as 441g/L (35.3% w/w) of the potassium salt of glyphosate.

UFI: KPF1-E0Y7-K009-RH20

Warning

Causes serious eye irritation.

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: get medical advice/attention.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of non-hazardous waste. To avoid risks to human health and the environment, comply with the instructions for use.

PCS Number 05161

PROTECT FROM FROST Store in a cool dry place

Contents:

20 Litres

Batch/lot number:

IE, 20L, 2108, F, 067F, MON30162447a rA1a



- Herbicide

GROUP



HERBICIDE

A foliar applied translocated herbicide for the control of annual and perennial grass and broad-leaved weeds before sowing or planting all crops.

For use pre-harvest in cereals, oil seed rape, mustard, combining peas, field beans, linseed. For destruction of grassland, and use in stubbles, orchards, aquatic, amenity and non-crop areas. For the control of emerged weeds in industrial and amenity situations and in forestry.

Degraded by micro-organisms/microbes in the soil.

This product is a soluble concentrate containing 360 g/L glyphosate, present as 441 g/L (35.3% w/w) of the potassium salt of glyphosate.



FOR USE ONLY AS AN AGRICULTURAL, HORTICULTURAL, INDUSTRIAL, FORESTRY, AQUATIC AND NON-CROP AREA NON-SELECTIVE HERBICIDE.

Do not contaminate water with the product or its container except as directed for aquatic use. (Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads).

Keep out of reach of children

Keep away from food, drink and animal feeding stuffs

Wear suitable protective gloves when mixing the concentrate and during application.

Disposal

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

Authorisation holder: Monsanto UK Limited,

230 Cambridge Science Park, Milton Road, Cambridge, CB4 0WB, UK

Marketed in Ireland by: MONSANTO IRELAND LIMITED

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Website: www.bayercropscience.ie

Freephone: 1800 818534

For 24-hour emergency information contact: 00800 1020 3333

READ CAREFULLY ALL RECOMMENDATIONS FOR USE GIVEN WITH THIS CONTAINER. All users must ensure that they have read the recommendations for use and follow its advice before using the product.



RECOMMENDATION TABLES

AREA OF USE	CROP	TARGET WEEDS/USAGE	MAXIMUM NUMBER OF TREATMENTS	WEED INFESTATION	APPLICATION RATE L/ha	WATER VOLUME	APPLICATION TIMING AND GUIDANCE	
PRE-HARVEST ARABLE CROPS	WHEAT, BARLEY and OATS	Scutch, Black Bent, Creeping	1 per season	1-25 shoots/m²	2.0	80-250 L/ha*	Grain/seed moisture must not exceed 30% at spraying.	
		Bent		Up to 75 shoots/m ²	3.0		Harvest intervals:	
]		Over 75 shoots/m ²	4.0		CEREALS, PEAS, BEANS 7+ days	
	OILSEED RAPE, MUSTARDS		1 per season	Up to 75 shoots/m ²	3.0	200-250 L/ha	OILSEED RAPE 14-21 days	
				Over 75 shoots/m ²	4.0		LINSEED 14-28 days - MUSTARDS 8-10 days	
	COMBINING PEAS, FIELD BEANS		1 per season	Up to 75 shoots/m ²	3.0	80-250 L/ha*	Use high clearance, narrow wheeled tractors, wide booms and crop dividers. DO NOT	
		_		Over 75 shoots/m ²	4.0		TREAT CROPS GROWN FOR SEED. Where desiccating crops, check susceptibility of any	
	LINSEED		1 per season	Up to 75 shoots/m ²	3.0	80-250 L/ha	weeds present. Do not attempt to desiccate OILSEED RAPE or MUSTARD crops with	
				Over 75 shoots/m ²	4.0		significant secondary growth, uneven maturity, disease or stress.	
	WHEAT, BARLEY and OATS	Perennial broad-leaved weeds and other perennial grasses	1 per season	All levels/species	4.0	80-250 L/ha*	Desiccate LINSEED when seeds are light brown and capsules brown; stems/leaves may	
	OILSEED RAPE, MUSTARDS		1 per season	All levels/species	4.0	200-250 L/ha	be yellow/green.	
	COMBINING PEAS, FIELD BEANS		1 per season	All levels/species	4.0	80-250 L/ha*	Consult grain merchant before treating crops grown on contract or intended for malt for	
	LINSEED		1 per season	All levels/species	4.0	80-250 L/ha*	distilling.	
	WHEAT, BARLEY and OATS	Harvest Management	1 per season	Annual grasses	1.0	80-250 L/ha*	At Harvest Management rates, ANNUAL NETTLE, VOLUNTEER POTATO, ROSEBAY	
				Crop stems and	1.5		WILLOW HERB and POLYGONUM WEEDS will not be susceptible. WHEAT crops, WHEAT	
				leaves, annual broad-			VOLUNTEERS and BROAD-LEAVED WEEDS may require up to 14 days before harvest. Treated straw must not be used as horticultural mulch.	
				leaved weeds			* Rotary Atomisers may be used at a water volume of 10-40 L/ha. Ensure droplet dian	
	OILSEED RAPE, MUSTARDS	Crop desiccation & annual weeds, prior to direct combining	1 per season	All levels/species	3.0	200-250 L/ha	falls within the range 200-300 microns.	
	COMBINING PEAS, FIELD BEANS	7.	1 per season	All levels/species	3.0	80-250 L/ha*	, and the second	
STUBBLES AND GROUND PREPARATION PRE-SOWING OR	BEFORE ALL CROPS EXCEPT ORCHARDS	CROPS EXCEPT Scutch, Black Bent, Creeping Bent Other perennial grasses; volunteer potatoes (autumn only) Volunteer cereals and annual weed	1 per season	Up to 75 shoots/m ²	3.0	80-250 L/ha*	Do not cultivate immediately before spraying.	
				Over 75 shoots/m ²	4.0		For PERENNIAL weed control, allow: - 21+ days growth before spraying in spring	
			1 per season	All levels/species	4.0		- 21+ days growth before spraying in spring - VOLUNTEER POTATOES to make ample top growth	
PRE-PLANTING			4	All levels (see seles	4.5		- 5 days before cultivating or drilling	
			1 per season	All levels/species	1.5		For ANNUAL weed control, allow:	
	BEFORE ORCHARD PLANTING	Pre-plant clean-up of perennial	1 per season	Arable weeds	4.0		- 24 hours before cultivating	
	BEI ONE ONOMAND I EANTING	grasses and broad-leaved weeds	1 per season	Pasture weeds	5.0		- 48 hours before direct drilling Allow 7 days before planting trees and soft fruit	
		9	i pei seasoii	i asture weeds	0.0		See 'General Cautions' point 7.7	
SET ASIDE	SET ASIDE LAND FOLLOWING	Annual weeds including wild-oats	1 ner season	Germinating seedlings	1.25	80-250 L/ha*	After April 15th following shallow cultivation repeat treatment for any subsequent flush of	
MANAGEMENT	SHALLOW CULTIVATION	Ailitual weeds including wild-oats	1 per season	derininating seedings	1.25	0r 00-250 L/11a	derminating seedlings.	
						Hand-held		
						equipment (p8)		
	UNCULTIVATED SET ASIDE LAND	Perennial grasses including Scutch, False Oat-grass,	1 per season	Moderate Scutch infestation	3.0		Spray from mid May to late June. Where topping is not practised, spray before seed set.	
		Creeping Soft -grass, annual &		Heavy Scutch	4.0			
		perennial broad leaved weeds		infestation and all				
		2		other weeds			3	

AREA OF USE	CROP	TARGET WEEDS/USAGE	MAXIMUM NUMBER OF TREATMENTS	WEED INFESTATION	APPLICATION RATE L/ha	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
GRASSLAND - DESTRUCTION	SILAGE GROUND	Grassland destruction	1 per season	All levels/species	4.0	150-250 L/ha*	Pre-cut, silage ground: treat 5 days before 2nd or 3rd cut. Consume in normal manner. Post-cut, silage ground and permanent pasture: allow adequate regrowth of grasses and especially broad-leaved weeds (see Section 2) prior to application.
	PERMANENT PASTURE		1 per season	All levels/species	6.0		Grass may be conserved or grazed by cattle, dairy cows or sheep 5+ days after spraying. REMOVE POISONOUS PLANTS BEFORE GRAZING/MOWING.
POST SOWING/ PLANTING, PRE- EMERGENCE OF THE CROP	LISTED CEREALS, OILSEED RAPE, POTATOES, MUSTARD, LINSEED, PEAS, FIELD BEANS, SUGAR BEET, SWEDE, TURNIP, ONION and LEEK	Volunteer Cereals and Annual Weeds	1 per season	All levels/species	1.5	80-250 L/ha*	CAUTION - Ensure that spraying precedes ANY crop emergence.
AMENITY, INDUSTRIAL AND	Including industrial sites, roadsides,	VEGETATION	1 per season	Annual weeds	1.5	40-250 L/ha Or	Use as a directed spray in ornamental plantings.
AROUND THE FARM	fences and walls and field edges 1 per season Perennial grasses 4.0 Han		Hand-held equipment (p10)	See Section 2.1 for optimum timing of application. Do not use under polythene or glass.			
ORCHARDS	APPLE, PEAR, PLUM, CHERRY, DAMSON	Perennial grasses, broad-leaved weeds	1 per season	All levels of most species	SO	200-400 L/ha	Spray AFTER autumn leaf-fall and BEFORE: apples, pears: green cluster stage stone fruit: white bud stage Trees must have been established 2+ years. Avoid contact with tree 30+ cm above ground
AQUATIC		Emerged Weeds -Reeds, Rushes, Sedges, Grasses and Watercress and broad- leaved weed	1 per season	All levels/species	5.0	200-400 L/ha or handheld Equipment (p10)	Always apply against direction of any current. Large areas should be divided into quadrants and treated sequentially at intervals of at least 14 days. Use boat mounted sprayers at slowest practical speed. Application presents no hazard to fish.
		Floating Weeds -White water-lily -Yellow water-lily	1 per season	All levels/species	6.0	100-200 L/ha or handheld Equipment (p10)	
IN-CROP (TRACTOR MOUNTED WEED WIPER APPLICATION)	ARABLE CROPS, VEGETABLE CROPS, GRASSLAND, FORESTRY, FOREST NURSERY SET ASIDE	Bolters, weed beet, other weeds	1 per season	All levels	1:1 dilution with water OR 1:2 dilution with water in hot, dry conditions.		Weeds must be 10+ cm taller, and wiper 5+ cm higher, than desired vegetation. Wipe dense populations twice, in opposite directions. BOLTING BEET requires three applications, 2 weeks apart, from early July to early August. POISONOUS WEEDS and grazing/mowing interval - See GRASSLAND section.
FORESTRY – PRE-PLANTING	ALL SPECIES	Arable land, Planting, Replanting & Grassland areas	1 per season 1 per season	Arable Weeds Grassland Weeds	4.0 5.0	Hydraulic sprayers 80-250 L/ha Or rotary atomisers 10-40 L/ha	All tree species may be planted 7 days or more after treatment.

AREA OF USE	CROP	TARGET WEEDS/USAGE	MAXIMUM NUMBER OF TREATMENTS	WEED INFESTATION	APPLICATION RATE L/ha	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
FORESTRY – POST-PLANTING (DIRECTED)	ALL SPECIES	Annual/perennial grasses and broadleaved weeds	1 per season	All levels/species	4.0	Hand-held equipment: apply as a 1.6%	It is ESSENTIAL to use a TREE GUARD for all applications made in the growing season. Treat BRACKEN after frond tips are unfurled but before senescence.
APPLICATION	Bracken, Beech, brush, Brambles Sycamore Or		concentration of ROUNDUP XL Or Weedwiper mini	Treat HEATHER from late August to end September. Treat WOODY WEEDS from June to August, before leaf senescence, but after new crop growth has hardened. (*) For improved control of RHODODENDRON, apply 6.4 L/ha ROUNDUP XL, adding High Trees Mixture B (PCS No. 91597) at 2% of spray volume.			
		Heather (peat soils) Heather (mineral soils	1 per season	All levels	4.0 6.0		Application using a Weedwiper is not suitable. Treat HEATHER from late August
		Rhododendron (*)	1 per season	All levels	10.0		While moderate control in the current season will be observed on summer treated woody weeds, benefits of autumn treated weeds will only be achieved in the following season.
FORESTRY — POST-PLANTING (OVERALL DORMANT SEASON IN CERTAIN CONIFERS)	CORSICAN, LODGEPOLE & SCOTS PINES, NORWAY SPRUCE, LAWNS CYPRESS, WESTERN RED CEDAR (SAFE TO SPRAY WHEN FULLY FORMANT & LEADER GROWTH HAS HARDENED). DOUGHLAS FIR & NOBLE FIR (SAFE TO SPRAY WHEN FULLY FORMANT & LEADER GROWTH HAS HARDENED BUT NOT IN SPRING).	Grass weeds Bracken, Beech & Birch Brambles (Only moderate control can be expected in this situation)	1 per season 1 per season 1 per season 1 per season	Black Bent, Cock's foot, Common Couch, Creeping Soft-grass, False Oat-grass, Fescues, Meadow-grasses, Other Ben-species, Purple Moor-grass, Sweet Vermal- grass, Tufted Hair-grass, Wavy Hair-grass, Wood Small-reed (Bush grass) All levels of all species	2.0 2.0 2.0 3.0	Hydraulic sprayers 200-250 L/ha 0r Hand-held equipment – See Water volume and spray equipment section.	DO NOT OVERALL SPRAY trees being grown for ORNAMENTAL PURPOSES, including CHRISTMAS TREES. If overall application takes place after the optimum timing weed control may be reduced. It is advisable to spray a limited area of forest to test crop safety under local conditions before widespread overall application in subsequent years. These recommended application rates refer to Forestry usage only. Inadequate control may result if used in other areas. The timing of hardening of leader growth varies considerably between locations and between seasons. It may occur as early as the end of July or be delayed to October or later. To avoid damage to Lammas growth, sprays should be directed away from leaders.

TAKE EXTREME CARE TO AVOID DRIFT DO NOT MIX STORE OR APPLY ROUNDUP XL IN GALVANISED OR UNLINED STEEL CONTAINERS OR SPRAY TANKS.

DO NOT leave spray mixtures in tank for long periods and make sure tanks are WELL VENTED

2. GENERAL PROPERTIES

ROUNDUP XL herbicide is an aqueous solution containing 360 g/L glyphosate. It is a foliar-acting herbicide with broad-spectrum activity. It is taken up by foliage and translocated to underground roots. rhizomes and stolons, providing control of both annual and perennial grasses and broad-leaved weeds. Applied pre-harvest of specified crops, ROUNDUP XL provides, in addition to weed control, a diverse range of harvest management benefits accruing from the removal of green material from the crop, ROUNDUP XL is recommended for control of annual and perennial weeds in non-crop areas such as roadsides, paths, hard surfaces and along fences and walls. It is recommended for cleaning up weedy ground prior to planting or sowing, for total weed control on industrial sites and for aquatic weed control, ROUNDUP XL may also be used as a directed spray in ornamental plantings, and in forestry for site preparation and postplanting treatments.

ROUNDUP XL is rapidly adsorbed onto particulate matter in soils and water and is quickly degraded by the micro-organisms present in soil and aquatic bottom sediments. Upon absorption, the herbicidal properties of ROUNDUP XL are lost, permitting drilling of crops within 24 hours of application. When used as directed, any water subjected to ROUNDUP XL spray drift may be used immediately for irrigation purposes. Until degraded, the active ingredient in ROUNDUP XL. glyphosate, is practically immobile in soils and is. therefore, unlikely to contaminate groundwater.

Symptoms on the weeds

Symptoms of treatment are generally first seen 7-1 days, or longer (if growth is slow), after spraying. These take the form of leaf reddening followed by yellowing and are usually quicker to appear on grasses than on broad-leaved weeds. Reaction of nettles is slow.

For aquatic weed control, on reeds and grasses leaf symptoms usually appear within 14-21 days of spraying in the early autumn. Complete foliage desiccation usually occurs 30-40 days after spraying. At this stage, the reeds can be cut and removed. During cold conditions leaf symptoms may not appear before natural dieback but no growth will occur in the season following spraying.

Effects of weather

A period without rain of at least 6 hours, and preferably 24 hours, must follow application of ROUNDUP XL

Do not spray in windy conditions as drift onto desired plants or crops could severely damage or destroy them. Do not spray on to weeds suffering from drought. water-logging, heat or frost, otherwise poor control

3. WEED SUSCEPTIBILITY

ROUNDUP XL herbicide controls most emerged grasses and broad-leaved weeds. It is important that all weeds are at the correct growth stage when treated. otherwise some re-growth may occur and this will need re-treatment.

Apply ROUNDUP XL herbicide once grasses and broadleaved weeds have emerged and they have ACTIVELY GROWING green leaves.

- PERENNIAL GRASSES must have full emergence of healthy, green leaf. (Common Couch, for example, becomes susceptible at the onset of tillering and new rhizome growth, which usually occurs when plants have 4-5 leaves, each with 10-15 cm of new growth)
- PERENNIAL BROAD-LEAVED WEEDS are most susceptible around the flowering stage.
- ANNUAL GRASSES AND BROAD-LEAVED WEEDS should have at least 5 cm of leaf, or 2 expanded true leaves, respectively. In set-aside, annual grasses are best treated at full ear emergence, or before stem elongation. Application during the stem extension phase of annual grasses e.g. Black-grass and Brome species on set-aside between the end of April and end of May. may result in poor control and require re-treatment.
- BRACKEN should be treated after frond tips are unfurled, but pre-senescence.

- AQUATIC WEEDS should be treated when the weeds are actively growing with full emergence of green leaf, at flowering and before dieback. Best results are obtained from applications in the periods from mid-August to mid-September on reeds.
- OTHER SPECIES—recommendations for specific Areas of Use are given in the Recommendation Tables
- This product will not give an acceptable level of control of Horsetails (Equisetum arvense)-repeat treatment will be necessary.

4. TANK-MIXTURES

AQUATIC WEEDS.

rate of

For use in forestry: Mixture B may be added at the

2 % of the spray volume. DO NOT APPLY TO FDIBLE CROPS OR GRASSLAND OR

Do not tank-mix ROUNDUP XL when using rotary atomiser sprayers.

N.B. For hydraulic sprayer: maintain continuous agitation when using ROUNDUP XL in tank mixture. For knapsack sprayer: mix thoroughly and use immediately when using ROUNDUP XL in tank mixture.

5. APPLICATION

a) Conventional Hydraulic Sprayers

Knapsack sprayers and tractor mounted or powered sprayers may be used. These should be capable of applying accurately 80-400 L/ha within a pressure range of 1.5-2.5 bars (20-35 psi).

Medium Volume application

Avoid high water volumes which may lead to run-off from the treated vegetation, resulting in reduced control. Nozzles producing a medium or coarse spray (BCPC definition) should be used to minimise the risk of drift:

e.g. Knapsack Hypro AN 2.0, AN 4.0 Cooper Pegler Floodiet green, red Hypro 04-F110, 08-F110 Tee Jet 11004, 11008

Low Volume Application

Nozzles which produce a medium spray (BCPC definition) should be used to minimise the risk of drift.

Hypro Lo Drift

Knapsack: Stir the correct amount of ROUNDUP XL into at least 2 litres of clean water in a plastic bucket. Add this solution to a half filled sprayer and top up with water.

> Tractor Mounted: To avoid foaming do not use top tank agitation. Half fill the spray tank with clean water. start gentle agitation, then add the correct amount of ROUNDUP XL. Top up the tank with water to the required level. Use of a defoamer may be necessary.

b) Rotary Atomisers

c) Overall, Non-Selective applications

When rotary atomisers are used to apply ROUNDUP XL ensure that the droplet diameter falls within the range 200-300 microns for all uses.

- Hand-held machines can be used to apply a spray volume of 10-40 L/ha, eq. Herbi and Herbaflex. Ulvaforest tractor-mounted boom sprayer is suitable
- for use in forest situations to apply a spray volume of
- Rotary atomisers may be used for the control of aquatic weeds, the water volume must be 10-40 litres.

Filling the sprayer bottle – hand held machines Stir the correct amount of ROUNDUP XL into the sprayer

bottle half filled with clean water. Top up with water. close the top and shake gently to ensure good mixing.

Ulva and Mistblower

These applicators are recommended for use in FORESTRY areas ONLY. The principle of application is to drift the herbicide onto target weeds taking care to avoid contact between this product and all desired species.

Apply in a total volume of spray liquid at 10-20 L/ha in the Ulva and 90-175 L/ha in the Mistblower using the correct dose of ROUNDUP XL herbicide to control the particular target species.

d) Hand-Held Wipers

eg. Knapsack Cooper Pegler VLV 100 Hypro AN 1.0

Filling the Sprayer

Sprayer maintenance

damaged, worn or malfunctioning parts before use. Carry out maintenance according to the instructions of the sprayer manufacturer.

Sprayer Hygiene

It is essential to thoroughly clean-out spray tanks, pumps and pipelines and nozzle or disc assemblies, with a recommended detergent cleaner, between applying this product and other pesticides to avoid contamination from pesticide residues.

Caution

- Apply a solution of 1 part ROUNDUP XL with 2 parts 1. Always wash out the sprayer thoroughly before and after use.
- containers, such as old steel drums or galvanised watering cans.

AND TIMING

See Recommendation Tables.

- 7.1 Knapsack Sprayer Applicators
- When used at a walking speed of 1 m/sec to apply a swath of 1 m width, most knapsack sprayers deliver 8.4 Take extreme care to avoid drift, particularly when 200 L/ha spray volume (or 10 litres per 500 m²).
- To apply 4.0 L/ha of ROUNDUP XL, therefore, use a 2% solution (e.g. 200 ml ROUNDUP XL made up to

low volume nozzles typically deliver 100 L/ha spray ROUNDUP XL may be applied through the Weedwiper volume (or 10 litres per 1000 m²). Mini. Use a concentration of 1 part ROUNDUP XL to 2 parts of water and add a water-based scarlet dve if required. Care should be taken to avoid dripping onto wanted vegetation.

 Choose setting to apply 10-40 L/ha spray volume. All sprayers should always be calibrated before use. The using a rate of ROUNDUP XL appropriate to the target is essential when nozzles are changed or if a different dose of product is to be applied.

 Treatment of Individual Weeds Ensure the sprayer is in good working order and replace Apply 5 ml of spray to target weed, using a narrow cone TG-3 or TG-5 nozzle.

(metres) 3.0 L/ha 4.0 L/ha 5.0 L/ha 10.0 L/ha 0.6 85 110 140 280 7.4 Weedwiper Applicator (e.g. Weedwiper Mini)

2. Do not mix or apply in galvanised or mild steel 8. GENERAL CAUTIONS 8.1 Applications of lime, fertiliser, farmyard manur

6. AREAS OF USE, RATES, WATER VOLUMES

7. HAND-HELD EQUIPMENT:

- Use in Orchard, Non-Crop and Aquatic areas.
 - using near or alongside hedgerows. 8.5 A rain-free period of at least 6 hours and preferably 24 hours should follow application.

When used as above, knapsack sprayers fitted with

Amount of ROUNDUP XL (ml) per

and pesticides should be delayed until 5 days after

pesticides or fertilisers, except as specified under:

temperature, a covering of dust, flooding or severe/

prolonged frost at, or immediately after application.

Directions for Use – Tank Mixtures.

impaired by natural senescence, drought, high

5 litres of spray solution

Use in Orchards, Non-Crop and Aquatic areas.

application of ROUNDUP XI

8.2 Do not tank-mix ROUNDUP XL with adjuvants.

8.3 Reduced control is likely where weed growth is

7.3 Spot Gun Applicators

8.6 After application, large concentrations of decaying foliage, stolons, roots or rhizomes should be dispersed 20 litre nack

cultivation following spraying of annual weeds.

 To apply 4 L/ha ROUNDUP XL in this case, use a 4% 8.7 Decaying vegetation following application of ROUNDUR XL may temporarily delay the emergence and early growth of crops direct drilled within 48 hours of 7.2 Rotary Atomiser Applicators (e.g. Herbi, Herbaflex) spraying of annual weeds or within 24 hours after Use in Orchard, Non-Crop and Aquatic areas.

Metric conversion tables for ROUNDUP XL for or buried by thorough cultivation before crop drilling.

	Area treated	by the pack
Rate L/ha	Hectares	Acres
1.0	20	49
2.0	10	24
3.2	6.25	15.6
4.0	5	12.3
8.0	2.5	6.2

	Product required to treat 1 acre			
Rate L/ha	lb	kg		
1.0	1.14	0.52		
2.0	2.29	1.04		
3.2	3.67	1.67		
4.0	4.58	2.08		
8.0	9.15	4.16		

Volumetric measurement tables for ROUNDUP XL

First aid information in the event of accidental exposure or ingestion

and at rest.

center immediately

cholinesterase.

reference.

is not indicated.

Eye contact

Skin contact

	Area treated by the pack			
Rate L/ha	Hectares	Acres		
1.0	20	49		
2.0	10	24		
3.2	6.25	15.6		
4.0	5	12.3		
8.0	2.5	6.2		

Inhalation		d to treat 1 acre					
		kg	lb	/ha			
		0.52	1.14	1			
Ingestion		1.04	2.29)			
		1.67	3.67	!			
Advice to do		2.08	4.58)			
		4.16	9.15)			
	DOUBLE VI						

Kg	Litres	Kg	Litres	Kg	Litres
0.18	0.15	1.08	0.9	1.8	1.5
0.36	0.3	1.26	1.05	3.6	3.0
0.54	0.45	1.44	1.2	5.4	4.5
0.72	0.6	1.62	1.35	7.2	6.0
0.90	0.75			9.0	7.5

Rinse immediately with plenty of

least 15 minutes. Remove contact

water, also under the evelids, for at

immediately. Get medical attention if

Move to fresh air. Keep patient warm

irritation develops and persists.

Call a physician or poison control

Do NOT induce vomiting, Call a

immediately. Rinse mouth.

physician or poison control center

This product is not an inhibitor of

For 24-hour emergency information

National Poisons Information Centre.

Treatment with atropine and oximes

(01-8092166), retain the label for

contact: 00800 1020 3333 or

For information or to report a

Beaumont Hospital, Dublin.

poisoning incident contact The

	lenses if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.	Trademark References ROUNDUP XL® is a Registered Trademark of Monsanto Technology LLC.
ct	Wash off immediately with plenty of water for at least 15 minutes. Take	Monsanto® and the Vine symbol are registered trademarks of Monsanto Technology LLC. All other brand names referred to are trademarks of other

Material Safety Data Sheet

any patent or trademark registration.

A material safety data sheet for this product is available on request from Monsanto: www.bayercropscience.ie or call 1800 818534.

manufacturers in which proprietary rights may exist.

Monsanto does not warrant that the purchase or use of equipment mentioned in this document will not infringe

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Roundup

Keep out of reach of children

Keep away from food, drink and animal feeding stuffs

Disposal

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

Authorisation holder: Monsanto UK Limited.

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