

FRONT LABEL



ROUNDUP FLEX

- 480 g/L glyphosate

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

For use pre-emergence and pre-harvest in cereals and certain other crops, for destruction of grassland, and use in stubbles, setaside and orchards.

Degraded by micro-organisms/ microbes in the soil.

This product contains a soluble concentrate containing 480 g/l glyphosate, present as 588 g/l (43.8% w.w.) of the potassium salt of glyphosate.

**FOR USE AS AN AGRICULTURAL/HORTICULTURAL HERBICIDE
For Professional Use only**

SAFETY INFORMATION

Keep only in original container

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

To avoid risks to human health and the environment, comply with the instructions for use

PCS Number 04593

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

Do not contaminate water with product or its container (Do not clean application equipment near surface water/avoid contamination via drains from farmyards and roads)

PROTECT FROM FROST
Imported

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No licence is granted under any patent.
Lot number/production date:.

BOOKLET AND BASE LABEL



ROUNDUP FLEX

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In case of emergency day or night, telephone National Chemical Emergency
Centre: (01865) 407333

**In case of emergency day or night, telephone Chemical Emergency
Centre: Tel: 00 44 1865 407333**

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.

DIRECTIONS FOR USE

Warnings

EXTREME CARE SHOULD BE TAKEN TO AVOID SPRAY DRIFT AS THIS CAN SEVERELY DAMAGE NEIGHBOURING CROPS OR PLANTS.
DO NOT MIX, STORE OR APPLY ROUNDUP FLEX 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.

General Information

ROUNDUP FLEX herbicide is an advanced formulation containing glyphosate. ROUNDUP FLEX 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 FLEX provides, in addition to weed control, a diverse range of harvest management benefits accruing from the removal of green material from the crop. ROUNDUP FLEX 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.
Until degraded, the active ingredient in

ROUNDUP FLEX, glyphosate, is practically immobile in soils and is, therefore, unlikely to contaminate groundwater.

When used as directed, any water subjected to ROUNDUP FLEX spray drift may be used immediately for irrigation purposes.

ROUNDUP FLEX is a glyphosate formulation which, having no hazard classification, offers a high standard of operator safety.

General cautions

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

Do not spray onto weeds which are naturally senescent, or where growth is impaired by drought, high temperatures, a covering of dust, flooding or frost at, or immediately after application, otherwise poor control may result.

Take extreme care to avoid drift, particularly when using near or alongside hedgerows. The use of low drift nozzles such as 'air induction' and 'pre-orifice' nozzles are recommended.

Do not tank-mix ROUNDUP FLEX with adjuvants, pesticides or fertilisers, except as specified in under Directions for Use, Tank Mixtures.

After application, large concentrations of decaying foliage, stolons, roots or rhizomes should be dispersed or buried by thorough cultivation before crop drilling.

Decaying vegetation following application of ROUNDUP FLEX may temporarily delay the emergence and early growth of crops direct drilled within 48 hours of spraying of annual weeds or within 24 hours after cultivation following spraying of annual weeds.

Applications of lime, fertiliser, farmyard manure and pesticides should be delayed until 5 days after application of ROUNDUP FLEX.

Disposal

This container must be triple rinsed and should then be disposed of as non hazardous waste through a farm recycling scheme.

Weeds controlled

ROUNDUP FLEX 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 FLEX herbicide once grasses and broad-leaved weeds have emerged and they have ACTIVELY GROWING green leaves.

- PERENNIAL GRASSES must have full emergence of healthy, green leaf. (Scutch, 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.
- OTHER SPECIES - recommendations for specific Areas of Use are given in the Recommendation Tables, pages 2-3-4-5
- This product will not give an acceptable level of control of Horsetails (*Equisetum arvense*) – repeat treatment will be necessary.

Symptoms on the weeds

Symptoms of treatment are generally first seen 7-14 days, or longer, if growth is slow, after spraying. Leaf symptoms take the form of a reddening followed by yellowing of the foliage and are usually quicker to appear on grasses than on broad-leaved weeds. Reaction of nettle is slow.

Following crops

Upon soil adsorption the herbicidal properties of ROUNDUP FLEX are lost permitting the drilling of crops 24 hours after application. See the 'Recommendation Tables' for specific restrictions.

Specific Crop Information

Crop	Max single dose	Max no of applications	Max total dose	Latest time of application:				
Winter wheat, spring wheat, durum wheat, winter barley, spring barley, oats, combining pea & field bean (pre-harvest)	3.0l/ha	-	3.0l/ha/crop	7 days before harvest				
Mustard (pre harvest)	3.0l/ha	-	3.0l/ha/crop	8 days before harvest				
Linseed, oilseed rape (pre harvest)	3.0l/ha	-	3.0l/ha/crop	14 days before harvest				
Post plant pre-emerge	1.0l/ha	-	1.0l/ha/year	Before crop emergence				
Stubbles	3.75/ha	-	3.0l/ha/year	2-7 days pre-drilling				
Setaside	4.5/ha	-	4.5/ha/year					
Grassland (destruction)	4.5/ha	-	4.5/ha/year	5 days before harvest or drilling				
Top fruit orchards	3.75/ha	-	3.75 l/ha/year	After harvest				
<p>Other Specific Restrictions:</p> <p>When applying through rotary atomisers, the spray droplet spectra produced must be of a minimum Volume Median Diameter (VMD) of 200 microns.</p> <p>Weed wipers may be used in any recommended crop where the wiper or chemical does not touch the growing crop.</p> <p>When using weed wipers, the maximum concentrations used must not exceed the following:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">a) Weed wiper Mini</td> <td>1:3 dilution with water</td> </tr> <tr> <td>b) Other Wipers</td> <td>1:2 dilution with water</td> </tr> </table>					a) Weed wiper Mini	1:3 dilution with water	b) Other Wipers	1:2 dilution with water
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RECOMMENDATION TABLES

AREA OF USE	CROP	TARGET WEEDS/ USAGE	MAXIMUM NUMBER OF TREATMENTS PER SEASON	WEED INFESTATION	APPLICATION RATE l/ha	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
PRE-HARVEST ARABLE CROPS	WINTER and SPRING WHEAT, DURUM WHEAT, WINTER and SPRING BARLEY and WINTER and SPRING OATS	Scutch	1	1-25 shoots/m ²	1.5	80-250 l/ha*	<p>Grain/seed moisture must not exceed 30% at spraying.</p> <p>Harvest intervals: CEREALS, PEAS, BEANS 7+ days OILSEED RAPE 14-21 days LINSEED 14-28 days MUSTARDS 8-10 days</p> <p>Use high clearance, narrow wheeled tractors, wide booms and crop dividers.</p> <p>DO NOT TREAT CROPS GROWN FOR SEED.</p> <p>Where desiccating crops, check susceptibility of any weeds present.</p> <p>Do not attempt to desiccate OILSEED RAPE or MUSTARD crops with significant secondary growth, uneven maturity, disease or stress.</p> <p>Desiccate LINSEED when seeds are light brown and capsules brown; stems/leaves may be yellow/green.</p> <p>Consult grain merchant before treating crops grown on contract or intended for malt for distilling.</p> <p>At Harvest Management rates, ANNUAL NETTLE, VOLUNTEER POTATO, ROSEBAY WILLOW HERB and POLYGONUM WEEDS will not be susceptible. WHEAT crops, WHEAT VOLUNTEERS and BROAD-LEAVED WEEDS may require up to 14 days before harvest.</p> <p>Treated straw must not be used as a horticultural mulch.</p>
	Up to 75 shoots/m ²			2.25			
	Over 75 shoots/m ²			3.0			
	OILSEED RAPE, MUSTARDS		1	Up to 75 shoots/m ²	2.25	100-250 l/ha#	
	Over 75 shoots/m ²	3.0					
	COMBINING PEAS, FIELD BEANS		1	Up to 75 shoots/m ²	2.25	80-250 l/ha*	
	Over 75 shoots/m ²	3.0					
	LINSEED		1	Up to 75 shoots/m ²	2.25	80-250 l/ha*	
	Over 75 shoots/m ²	3.0					
WINTER and SPRING WHEAT, DURUM WHEAT, WINTER and SPRING BARLEY and WINTER and SPRING OATS	Perennial Broad- leaved Weeds and Other Perennial Grasses	1	All levels/species	3.0	80-250 l/ha*		
OILSEED RAPE, MUSTARDS			All levels/species	3.0	100-250 l/ha#		
COMBINING PEAS, FIELD BEANS			All levels/species	3.0	80-250 l/ha*		
LINSEED			All levels/species	3.0	80-250 l/ha*		

AREA OF USE	CROP	TARGET WEEDS/ USAGE	MAXIMUM NUMBER OF TREATMENTS PER SEASON	WEED INFESTATION	APPLICATION RATE l/ha	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
	WINTER and SPRING WHEAT, DURUM WHEAT, WINTER and SPRING BARLEY and WINTER and SPRING OATS	Harvest Management	1	Annual grasses, crop stems and leaves Annual broad- leaved weeds	0.75 1.0	80-250 l/ha*	* Rotary Atomisers may be used at a water volume of 10-40 l/ha. Ensure droplet diameter falls within the range 200-300 microns. # Use higher volumes for dense canopies.
	OILSEED RAPE, MUSTARDS	Crop desiccation and annual weeds, prior to direct combining	1	All levels/species	2.25	100-250 l/ha#	
	LINSEED		1	All levels/species	2.25	80-250 l/ha	

AREA OF USE	CROP/ SITUATION	TARGET WEEDS/ USAGE	MAXIMUM NUMBER OF TREATMENTS PER SEASON	WEED INFESTATION	APPLICATION RATE l/ha	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
STUBBLES AND GROUND PREPARATION, PRE- SOWING OR PRE- PLANTING	BEFORE ALL CROPS EXCEPT ORCHARDS	Scutch, Black Bent, Creeping Bent	1	Up to 75 shoots/m ² Over 75 shoots/m ²	2.25 3.0	80-250 l/ha*	Do not cultivate immediately before spraying. For PERENNIAL weed control, allow: - 21+ days growth before spraying in spring - VOLUNTEER POTATOES to make ample top growth - 5 days before cultivating or drilling For ANNUAL weed control, allow: - 24 hours before cultivating - 48 hours before direct drilling Allow 7 days before planting trees * Rotary atomisers may be used at a water volume of 10-40 l/ha. Ensure droplet diameter falls within the range 200-300 microns.
		Other perennial grasses; volunteer potatoes (autumn only)	1	All levels/species	3.0		
		Volunteer cereals and annual weeds	1	All levels/species	1.0		
		Perennial broad leaved weeds	1	All levels/species	3.0		
	BEFORE ORCHARD PLANTING	Pre-plant clean- up of perennial grasses and broad-leaved weeds	1	Arable weeds Pasture weeds	3.0 3.75		
POST SOWING/PLANTING, PRE-EMERGENCE OF THE CROP	LISTED CEREALS, OILSEED RAPE, POTATOES, MUSTARD, LINSEED, PEAS, FIELD BEANS, SUGAR BEET, SWEDE, TURNIP, BULB ONION and LEEK	Volunteer cereals and annual weeds	1	All levels/species	1.0	80-250 l/ha*	CAUTION - Ensure that spraying precedes ANY crop emergence. *Rotary atomisers may be used at a water volume of 10-40 l/ha. Ensure droplet diameter falls within the range 200-300 microns.
ALL EDIBLE AND NON-EDIBLE CROPS (DESTRUCTION, BEFORE SOWING/PLANTING)	Vegetation management	-	1	Annual weeds Perennial grasses Perennial broad- leaved weeds	1.0 3.0 3.75	80-250 l/ha* or hand- held equipment (p.XX)	*Rotary atomisers may be used at a water volume of 10-40 l/ha. Ensure droplet diameter falls within the range 200-300 microns Do not use in or alongside hedgerows

AREA OF USE	CROP/ SITUATION	TARGET WEEDS/ USAGE	MAXIMUM NUMBER OF TREATMENTS PER SEASON	WEED INFESTATION	APPLICATION RATE l/ha	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
SET ASIDE MANAGEMENT	BEFORE or DURING REMOVAL FROM PRODUCTION e.g. prior to growing a set aside mixture	Scutch	1	Up to 75 shoots/m ² Over 75 shoots/m ²	2.25 3.0	80-250 l/ha*	Spray from mid May to late June. Where topping is not practised, spray before seed set. For PERENNIAL weed control, allow:- - 21+ days growth before spraying in spring - 5 days before cultivating or drilling. For ANNUAL weed control, allow: - 24 hours before cultivating. Do not direct drill after set-aside. Avoid applications during stem elongation as reduced control and re-spray is likely *Rotary atomisers may be used at a water volume of 10-40 l/ha. Ensure droplet diameter falls within the range 200-300 microns. Best control of annual grasses is achieved between full ear emergence and senescence. + Only for weeds listed as per grassland destruction application rate table below.
		Perennial broad- leaved weeds and other perennial grasses	1	All levels/species	3.0	Hand-held equipment (p.8) or	
		Annual weeds - Early autumn/spring - Late spring/summer	1	All levels/species All levels/species	1.0 2.25	Tractor mounted weed wiper (p.16)	
	AFTER SHORT ROTATION or LONG TERM REMOVAL FROM PRODUCTION	Natural regeneration and cover crop destruction	1	Annual weeds only Perennial grasses	2.25 3.00	150-250 l/ha*	

APPLICATION RATE FOR GRASSLAND DESTRUCTION

2.25 l/ha		3.0 l/ha		3.75 l/ha		4.5 l/ha	
Annual Meadow-grass	Meadow Fescue	Black-bent	Creeping Soft-grass	Bracken**	Red Clover	Common Ragwort	Nardus (Mat grass)
Common Chickweed	Meadow Foxtail	Broad-leaved Dock	Curled Dock	Common Sorrel	Sedges	Hard Rush	Red Fescue
Common Mouse-ear	Rough Meadow-grass	Cock's-foot	Perennial Rye-grass	Common Nettle	Sheep's Sorrel	Heath Rush	White Clover*
Dock Seedlings	Speedwell species	Common Bent	Plantains	Creeping Buttercup*	Soft Rush	Jointed Rush	Yellow Rattle
Italian Rye-grass	Timothy	Common Couch	Soft Brome	Creeping Thistle	Spear Thistle	Molinia (Purple Moor-grass)	Sheep's Fescue
Mayweed species		Creeping Bent	Yorkshire Fog	Daisy	Tufted Hair-grass		
				Dwarf Thistle	Yarrow		
				Perennial Sow-thistle			

AREA OF USE	CROP/ SITUATION	TARGET WEEDS/ USAGE	MAXIMUM NUMBER TREATMENTS PER SEASON	WEED INFESTATION	APPLICATION RATE l/ha	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
GRASSLAND - DESTRUCTION	SILAGE GROUND	Grassland destruction	1	All levels/species	3.0	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 re-growth of grasses and especially broad-leaved weeds (see Section 2) prior to application. Grass may be conserved or grazed by cattle, dairy cows or sheep 5+ days after spraying. REMOVE POISONOUS PLANTS BEFORE GRAZING/MOWING.
	PERMANENT PASTURE			Permanent pasture	4.5		
ORCHARDS (Top fruit)	APPLE, PEAR, PLUM, CHERRY, DAMSON	Perennial grasses, broad-leaved weeds	1	All levels of most species	3.75	200-400 l/ha	Spray AFTER autumn leaf-fall and BEFORE: apples, pears: green cluster stage stone fruit: white bud stage Treat root suckers in late spring only. Trees must have been established 2+ years. Avoid contact with tree 30+ cm above ground.
		Root suckers	1	-	3.75		
IN-CROP (TRACTOR- MOUNTED WEED WIPER APPLICATION)	ARABLE CROPS, VEGETABLE CROPS, GRASSLAND, FORESTRY, SET ASIDE	Bolters, weed beet, other weeds	1	All levels	1:2 dilution with water for wick-type weed wipers OR 1:3 dilution with water in hot, dry conditions. For 'new generation' wipers consult the manufacturer for guidance.		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. Contact Monsanto or your distributor for specific recommended weed wiper applicators. Treated POISONOUS WEEDS must be removed or allowed to completely degenerate before grazing or conserving.

Mixing and spraying

Roundup FLEX mixes readily with water and can be applied in spray volumes ranging from 80-400 l/ha using tractor mounted, knapsack, rotary atomisers and hand-held sprayers. Specialised application equipment such as weed wipers and spot gun applicators may be used where indicated.

Correctly calibrate all sprayers under field or use conditions prior to application.

a) Tractor mounted and powered hydraulic sprayers

These should be capable of applying accurately 80 - 400 l/ha within a pressure range of 1.5 - 2.5 bars (20 - 35 psi).

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

Medium Volume application (150 - 300 l/ha)

Avoid high water volumes (>300 l/ha) which may lead to run-off from the treated vegetation, resulting in reduced control. Low drift nozzles such as air induction and pre-orifice types producing a medium or coarse spray (BCPC definition) should be used to minimise the risk of drift.

Low Volume Application (minimum 80 l/ha)

Low volume application can be achieved by reducing pressure and the appropriate nozzle selection. Low drift nozzles which produce a medium spray quality (BCPC definition) should be used to minimise the risk of drift.

b) Knapsack Sprayers

Recommended delivery range is 80 - 300 l/ha. Half fill the spray tank with clean water, add the correct amount of Roundup FLEX and top up with water.

When used at a walking speed of 1 metre/second to apply a swath of 1 metre width, most knapsack sprayers fitted with a with a Hypro AN 0.6-AN2.4 or similar nozzle deliver approximately 200 l/ha spray volume (or 10 l per 500 m²). To apply 5.0 l/ha of ROUNDUP FLEX, therefore, use 50ml of product for each 2 litres of spray liquid required. Similarly, knapsack sprayers fitted with low volume nozzles such as D/0.23/1- D/0.68/1 typically deliver approximately 100l/ha spray volume. To apply 5.0 l/ha ROUNDUP FLEX in this case, use 100ml of product for each 2 litres of spray liquid required.

c) Rotary Atomisers

Hand-held machines can be used to apply a spray volume of 10-40 l/ha, e.g. Herbi and Herbaflex. When rotary atomisers are used to apply Roundup Flex ensure that the droplet diameter falls within the range 200-300 microns for all uses.

Stir the correct amount of Roundup Flex to control the particular target species into the sprayer bottle half filled with clean water. Top up with water, close the top and shake gently to ensure good mixing

d) Weed Wipers

For ropewick applicators use a concentration of 1 part Roundup Flex to 3 parts of water and add a water-soluble dye if required. Care should be taken to avoid dripping onto wanted vegetation.

For new generation weed wipers, use 1 part Roundup Flex to 10 or 20 parts of water or as directed by manufacturer's instructions. A list of machines is included in the Company Advisory section at the end of this label.

e) Spot Gun Applicators

Spot gun applicators are for the treatment of individual weeds. Apply 5 ml of spray to target weed, using a narrow cone TG-3 or TG-5 nozzle.

Spot Diameter (metres)	Amount of ROUNDUP FLEX (ml) per 5 litres spray solution for targeted dosages of:		
	2.25 l/ha	3.0 l/ha	3.75 l/ha
0.3	16	21	27
0.6	64	85	107

Tank Mixtures

Do not tank mix ROUNDUP FLEX with adjuvants, pesticides or fertilisers except as advised by Monsanto. For up to date information on compatible products contact Monsanto Ireland Limited, telephone (01) 825 0555 or (01) 825 0574.

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

For hydraulic sprayers: maintain continuous agitation when using ROUNDUP FLEX in tank mixture.

For knapsack sprayers: mix thoroughly and use immediately when using ROUNDUP FLEX in tank mixture.

Effects of weather

See Directions for Use (General Cautions).

Roundup Flex will remain efficacious at low but not freezing temperatures however the onset of symptoms will be delayed.

A covering of dew may reduce efficacy where run-off occurs.

Weed resistance strategy

There is low risk for the development of weed resistance to ROUNDUP FLEX. There are no known cases of weed resistance to glyphosate in Ireland.

A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures.

Growers are encouraged to implement a weed resistance strategy based on (a) Good Agricultural Practices and (b) Good Plant Protection Practices by:

Following label recommendations

- The adoption of complimentary weed control practices
- Minimising the risk of spreading weed infestations
- The implementation of good spraying practice to maintain effective weed control
- Using the correct nozzles to maximise coverage
- Application only under appropriate weather conditions
- Monitoring performance and reporting any unexpected results to Monsanto Ireland Ltd (Tel: (01) 825 0555/825 0574)

Metric conversion tables for ROUNDUP Flex (20 litre pack)

Rate l/ha	Area treated by the pack	
	Hectares	Acres
1.0	20	49
2.0	10	24
3.0	6.25	15.6
4.0	5	12.3
8.0	2.5	6.2

Rate l/ha	Product required to treat 1 acre	
	lb	kg
1.0	1.06	0.48
2.0	2.11	0.96
3.0	3.38	1.54
4.0	4.22	1.92
8.0	8.45	3.84

Volumetric measurement tables for ROUNDUP FLEX

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

Material Safety Data Sheet

A Material Safety Data Sheet is available on request from Monsanto

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