



Reg. No. 20-C-90-143

TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE

PRECAUTIONS:

1. Handle and open container with care.
2. Avoid contact with skin and eyes.
3. Wear suitable protective clothing and rubber gloves.
4. Wear rubber apron and safety goggles while handling the concentrate.
5. When using, **DO NOT** eat, drink or smoke.
6. Wash hands immediately after handling.
7. Wash any contaminated clothing before re-use.
8. Thoroughly clean equipment after use.
9. **KEEP OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.**
10. **KEEP APART FROM FOOD, DRINK AND ANIMAL FOODSTUFFS.**
11. **Store in original container and KEEP UNDER LOCK AND KEY.**
12. Destroy empty container - **DO NOT** use for any other purpose.
13. Destroy empty container by perforation of the base and flattening.

SHELF LIFE: 2 years from the date of manufacture IF kept in the original unopened container under constant cool and dry conditions.

SYMPTOMS OF POISONING:

In some cases contact with skin and eyes causes irritation to skin and eyes.

FIRST AID:

Eye contact: Flush with plenty of water for 15 minutes

Skin contact: Wash affected skin with water for 15 minutes

Inhalation: Move to fresh air

Ingestion: Drink water. **DO NOT** induce vomiting

NOTE TO PHYSICIAN:

This product is not an inhibitor of cholinesterase.
Treatment with atropine and oximes is not indicated.
Treat symptomatically.

ANTIDOTE: Antidote not known

Packed For: Bayer Zimbabwe (Pvt) Ltd
P.O. Box AY 78, Amby, Harare, Zimbabwe.
Tel. 487211/487242

IN CASE OF POISONING PLEASE PHONE: +27(0) 861 555 777

Manufactured by: Bayer Agriculture BV
Scheldelaan 460, B-2040 Antwerpen, Belgium

Roundup® is a registered trademark of Monsanto Technology LLC.

Batch No.: See on pack

Date of Manufacture: See on pack

Zim/0421/Roundup/20L
Back Booklet Label Code: A

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STORAGE CONDITIONS:

Store at ambient temperatures.(5 - 30°C) Avoid frost.

Store in original container under lock and key.

DISPOSAL:

Container Disposal: Rinse the empty container three times with a volume of water equal to at least 10% of that of the container. Add the rinsings to the spray tank. Perforate and flatten the empty container and

DO NOT use for any other purpose.

ACCIDENTAL RELEASE MEASURES

Use personal protection when dealing with spills.

Small quantities: Flush spill area with water.

Large quantities:

- Absorb in earth sand or absorbent material.
- Dig up heavily contaminated soil.
- Collect in containers for disposal.
- Flush residues with small quantities of water.
- Minimize use of water to prevent environmental contamination.

ENVIRONMENTAL HAZARDS

Harmful to fish or other aquatic life.

DO NOT contaminate lakes, rivers, ponds or streams with chemical or empty containers. Keep livestock out of treated areas.

DIRECTIONS FOR USE: Roundup as a herbicide

Application Situations

ROUNDUP has no effect on or through the brown bark of main stems and therefore in addition to non-crop usage (e.g. fence lines, lantana control) and industrial usage. It may be used pre-plant or inter row of shielded orchard crops such as Citrus, Coffee, Vines, Apples, Pears and Eucalyptus and post-harvest or before planting arable crops. Avoid overspray of inter-row crops as this will cause damage.

RATES:

Weed control

The low initial rate controls immature weeds in the vegetative stage. Germination and establishment of the subsequent population takes 6 – 14 weeks depending on rainfall and or irrigation. Mature weeds treated at the lower rates will be suppressed long enough to be controlled by the subsequent treatment for the new establishing generation of weeds. In case full control of mature weeds is required at the initial treatment, then the higher rate is to be used.

IMPORTANT INFORMATION:

- Always use clean water
- Rain or overhead irrigation within 6-8 hours of application can reduce efficiency
- **ROUNDUP** symptoms are slow to appear, hence the product takes at least 2 weeks for maximum effect
- For best results **ROUNDUP** must be applied to vigorously growing weeds. **DO NOT** apply to stressed or dormant weeds
- Pre-plant weed control sprays on sandy soil (<10% clay) should take place 7 days before transplanting seedlings.
- An excessive layer of dust on weed foliage will reduce efficacy
- Spray drift or direct contact onto leaves of desirable plants can result in serious damage
- **DO NOT** mix or store or apply this product in galvanized steel or unlined steel (except stainless steel) containers or spray tanks as the material will react with such containers to produce hydrogen, which is an explosive gas.
- Direct or spray drift contact with leaves by Roundup with leaves, green or immature bark or fruit of non-target plants can result in damage.
- **ROUNDUP** has no residual activity. Therefore no waiting periods is necessary to avoid phytotoxic effects on succeeding crops

APPLICATION DIRECTIONS:

- **ROUNDUP** must be applied post-weed emergence as a foliar spray
- **ROUNDUP** contains adequate built in wetter
- Operate calibrated sprayer at 100-200 kPa
- Apply in a range of 50-300 litres/ha. Use low volumes, e.g. 50-100 litres/ha where possible
- For perennial weed control, remove the competitive annual weeds to allow a maximum exposure of the weed to the application of **ROUNDUP**. If weeds are slashed or mown down, allow for sufficient re-growth before treatment.
- For aerial application, apply 20-50 litres mixture/ha. Wind speed should not be more than 10km/h and relative humidity should be at least 40%.

WEED SPECIES	WEED CONTROL	
	Initial rate (L/Ha)	follow-up spot spray (L Roundup/15L water)
Pigweed (<i>Amaranthus hybridus</i>) Black jack (<i>Bidens pilosa</i>) Fat hen (<i>Chenopodium album</i>) Stinkblaar (<i>Datura stramonium</i>) Rapoko grass (<i>Eleusine indica</i>) Other annual grasses	0.4-1.3	0.12
Fleabane (<i>Coryza</i> spp.) Purslane (<i>Portulaca oleracea</i>) Mexican marigold (<i>Tagetes minuta</i>) Volunteer maize Volunteer winter cereals Mexican clover (<i>Richardia scabra</i>)	0.6-1.6	0.12
Wandering Jew (<i>Commelina benghalensis</i>) Shamva grass (<i>Rottboelia cochinchinensis</i>) Garden urochloa (<i>Urochloa panicoides</i>)	1.2-3.2	0.12
Kikuyu (<i>Pennisetum clandestinum</i>) Dallis grass (<i>Paspalum dilatatum</i>) Guinea grass (<i>Panicum maximum</i>) Couch grass (<i>Cynodon dactylon</i>) Star grass (<i>Cynodon nlemfuensis</i>) Love grass (<i>Eragrostis</i> spp.) Silver spike (<i>Imperata cylindrica</i>) Lantana (<i>Lantana camara</i>) Yellow nutsedge (<i>Cyperus esculentus</i>) Water lettuce (<i>Pistia</i> spp.) Thatching grass (<i>Hyparrhenia</i> spp.) Water hyacinth (<i>Eichornia crassipes</i>) Common reed (<i>Phragmites</i> spp.)	3.2 4.0 4.0 4.0 4.0 6.0 4.0 3.0 3.0 4.0 8.0 5.0 5.0	0.1 0.2 0.24 0.24 0.2 0.2 0.2 0.2 0.2 0.24 0.24 0.3 0.3

ROUNDUP AS A SUGARCANE RIPENER:**APPLICATION DIRECTIONS AND RATES:**

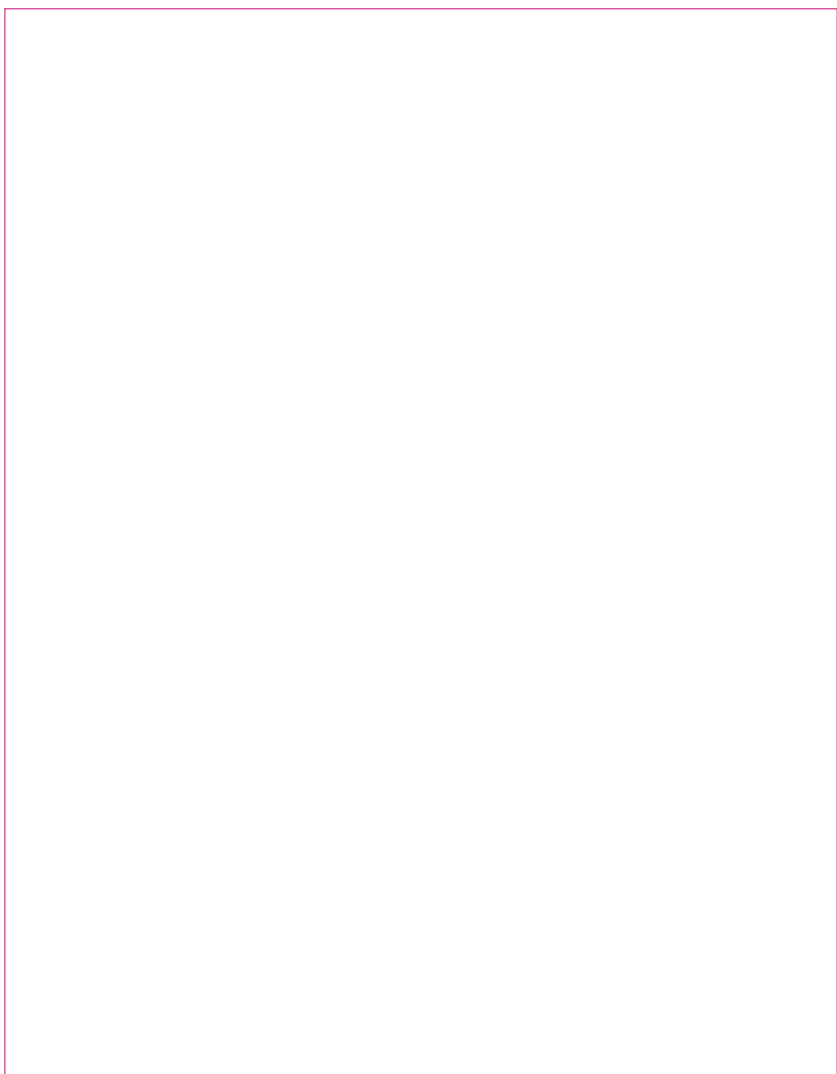
ROUNDUP should be applied to EARLY season (April - June harvests) sugarcane.

RATE	COMMENT
480 m//Ha	Recommended for aerial and calibrated ground rig application. Spray on well grown cane at 77 – 80% juice purity - i.e. approximately 12 weeks before harvest. Spray drift or direct contact with young cane can result in crop damage. Re-growth from previously treated cane can have a yellow chlorotic appearance, this is not known to affect yield

WARRANTY

The excellent results which this herbicide normally yields are not however warranted or guaranteed as the effectiveness depends on weather, soil conditions, application techniques and other factors outside the control of the manufacturer and supplier. No warranty whatsoever whether express or implied is given concerning the effectiveness of this herbicide and responsibility is specifically excluded for any damage, injury or loss of any kind during or resulting from its handling, use or storage whether or not such has been in accordance with directions.

Bayer





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