



We create chemistry

APPROVED

Integrity®

No weeds, no worries!

An emulsifiable concentrate selective pre-emergent herbicide for the control of annual grasses, broad leaf weeds and sedges in maize and sugarcane.

HRAC Group Code: E & K3

Active ingredients: Saflufenacil (Kixor®) 68 g/L
Dimethenamid-P 600 g/L

HAZARD STATEMENTS:
Causes serious eye irritation.
May be harmful if swallowed.
Very toxic to aquatic animals.

PRECAUTIONARY STATEMENT:
Wear protective gloves.
Avoid breathing vapours.
Wash contaminated body parts thoroughly after handling.

Distributed by:
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DG Office Park, 1 Chifla Road, Lusaka - Zambia.
+260 973 229 860, +260 971 006 124.
Manufactured by:
BASF Group,
Headquarter: 67056 Ludwigshafen, Germany.
International Emergency Number: +49 180 2273 122.

ZEMA PRODUCT NUMBER:

Lot Number:

Date of Manufacture:

NET VOLUME: 1 Litre



READ THE LABEL BEFORE USING THE PRODUCT

WARNINGS:

- Harmful when swallowed, inhaled or absorbed by skin.
- Keep locked up out of reach of children, uninformed persons and animals.
- Keep in the original container and store in a cool dry place away from food and feeds.
- Irritating to skin and eyes; avoid contact, ingestion and inhalation.
- May cause sensitization in contact with skin.
- Toxic to fish and marine invertebrates and water plants.
- Prolonged cool and wet weather conditions, excessive irrigation, infection of seed and young seedlings by soil or seed borne diseases, seeds planted too deep or too shallow etc. may lead to crop damage. Where applicable, seeds should therefore preferably be treated with a suitable seed treatment fungicide.
- Do not apply Integrity® directly on water or on areas where there is surface water.

Aerial Application:

Notify and warn all inhabitants in the immediate area of the intended application and issue necessary warnings. Do not spray over adjacent areas or on water.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weed against the remedy concerned as well as by the method, time and accuracy of application. The registration holder does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of registration. Consult the supplier in the event of any uncertainty.

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WARNING



PRECAUTIONS:

- Handle with care.
- Wear suitable protective clothing and face shield when handling the concentrate.
- Do not inhale spray mist.
- Wash contaminated clothing after use.
- Wash with soap and water after using/handling the product.
- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face after handling the product.
- Avoid spray drift onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator after use. Dispose off washing water where it will not contaminate crops, grazing areas, rivers, dams or any other areas not under treatment.
- Triple rinse empty container in the following manner: invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the empty container three times with a volume of water equal to a minimum of 10% of the container. Add the risings to the contents of the spray tank before destroying the container by perforation, flattening and burying, and never reuse it for any purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Do not allow workers (or other people) to enter the treated area within 12hrs after application of the product.
- If additional application is required do not exceed 85 g/ha a.i. of Kixor® and 720 g a.i. of Dimethenamid-P per hectare in one season.

FIRST AID TREATMENT:

First Aid providers must wear protective clothing/equipment to prevent exposure. Remove contaminated clothing and seek medical advice. Have the product label or container with you when calling the Doctor.

IF IN EYES	Hold eyes open and rinse slowly and gently with clean water for 15-20 minutes. Remove contact lenses if present after the first 5 minutes, and continue rinsing the eyes. Seek medical advice.
IF SWALLOWED	Call a doctor immediately for treatment. Rinse the mouth with clean water. Do not induce vomiting unless told so by a doctor. Do not give any liquid or solid food. Do not induce vomiting or give anything by mouth if the person is unconscious or having convulsions.
IF ON SKIN OR CLOTHING	Take off contaminated clothing and rinse the skin immediately with plenty of clean water for 15-20 minutes. Seek medical advice.
IF INHALED	Move the person to where there is fresh air, keep the patient calm. Seek medical attention.
IN CASE OF ACCIDENTAL POISONING- CONTACT A DOCTOR	

USE RESTRICTIONS:

Do not apply Integrity® in the following situations as crop damage may occur:

- On poorly drained soils, soils with a compaction layer or soils with a nutrient deficiency.
- On inbred parent plants of maize hybrids or experimental or newly released cultivars of all registered crops on Integrity®, including any seed production of any of the registered crops on Integrity® without consulting the advice of the distributor or manufacturer.
- After the maize has germinated. Severe crop injury will occur if Integrity® is applied over the top of the maize after the maize has germinated.
- Where organophosphate or carbamate insecticides are planned to be applied at planting.
- More than a maximum of 1.5 litres per hectare of Integrity® per cropping season.
- Do not incorporate more than 3 cm deep.

CROP TOLERANCE:

Maize and popcorn are tolerant to Integrity® when applied according to label directions as a pre-plant to pre-emergence treatment and under normal environmental conditions. Crop injury may occur under stressful growing conditions (e.g. low fertility, seedling disease, extreme cold or hot weather, excessive moisture, high soil pH, high soil salt concentration or drought).

Severe crop injury will occur if Integrity® is applied post-emergence (over the top) of the maize.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

There is no restrictions on planting any other crop following normal harvest of a crop treated with Integrity®. In case of failure of a crop treated with Integrity®, the field can be immediately replanted with any crop in which Integrity is registered.

COMPATIBILITY:

Integrity® can be tank mixed or applied sequentially with one or more, but not limited to the following herbicides Atrazine, Glyphosate (e.g. Roundup®) and Stomp® Aqua.

MIXING INSTRUCTIONS:

Fill the spray tank to about ¾ full with clean water. Shake the Integrity® container well. Measure the required volume of Integrity® and add it to the spray tank and start agitating to mix the Integrity® and the water. Then fill up the spray tank to the required level while maintaining the agitation to ensure thorough mixing of the spray mixture before spraying starts. Maintain the agitation during spraying. The prepared mixture must not be left in the tank for long periods e.g. overnight.

APPLICATION INSTRUCTIONS:

- Integrity® may be applied by ground application or air. Good spray coverage is important for good weed control.
- Avoid overlaps that will increase the rates above the recommended rates in this label and lead to crop damage.
- Do not apply Integrity® after the crop has germinated or severe crop injury will occur.
- Avoid spray drift to non-target areas.

Aerial application:

Aerial application of Integrity® may only be done by a qualified by and registered operator using correctly calibrated registered aircraft. Ensure that the spray mixture is evenly distributed over the target area and drift is restricted to a minimum. It is therefore essential that the following measures must be followed to reduce potential drift to non target areas and achieve good spray results.

- **Volume:** Use more than 30 litres of water per hectare. The product has not been tested at lower volume rates, the producer/registration holder cannot guarantee efficacy.
- **Droplet size:** A droplet spectrum with a VMD of 280 to 380 micron is recommended. Limit the production of droplets less than 150 micron.
- The distance of the outermost nozzles on the boom should not exceed ¾ of the length of the fixed wing span or 90% of the rotor blade diameter to prevent droplets from entering the wingtip vortices.
- Use low drift nozzles. Do not use nozzles producing mist droplet spray.
- Nozzles must always point backward parallel to the air stream.
- The air craft must spray at 3 metres above the crop canopy, but do not compromise aircraft safety, at wind speed of 0-8 km/h and at a height of 2 metres at wind speeds of 9-15 km/h and stop spraying if the wind speed is above 15 km/h.
- Do not apply during periods of temperature inversions or when it is very hot.
- The temperature difference between the wet and dry bulb thermometers of a whirling hygrometer should not exceed 8°C.

Ground application:

Use about 100- 200 litres/ha. Any medium to high volume sprayer can be used as long as it can be calibrated properly and ensure even distribution of the herbicide. The boom must be 60 cm or less above the ground.

Soil erosion:

Weed control will be reduced if either wind erosion or rain erosion carries away some of the top soil after the herbicide has been applied.

Pre-emergence application rates:

Crop	Soil type	Dosage litres/hectare
Maize	Sandy- less than 10% clay	0.9
	Medium - 10%-30% clay	1.0 - 1.1
	Heavy- more than 30% clay	1.2
Sugarcane	all soil types	1.5

PRE HARVEST INTERVAL:

The following number of days must be observed before harvesting a field that was sprayed with Integrity®.

Crop	Waiting period
Maize	100 days
Sweet corn	60 days
Grazing	40 days

Re -cropping Guidelines

The following guidelines must be followed before planting a field that was sprayed with Integrity®

Crop	Waiting time
Maize, popcorn	Any time no restrictions
Other cereals	3 ½ months
Other crops	11 months

Grass weeds controlled by Integrity®

COMMON NAME	SCIENTIFIC NAME	C= Controlled S= Suppressed
Sweet signal grass	<i>Brachiaria eruciformis</i>	S
Crab finger grass	<i>Digitaria sanguinalis</i>	C
Tropical finger grass	<i>Digitaria ciliaris</i>	C
Barnyardgrass	<i>Echinochloa crus-galli</i>	C
Goosegrass	<i>Eleusine indica</i>	C
Common buffalo grass	<i>Panicum maximum</i>	C
Sweet buffalo grass	<i>Panicum schinzi</i>	C
Giant foxtail	<i>Setaria faberi</i>	C
Red bristle grass	<i>Setaria pallide-fusca</i>	C
Sticky bristle grass	<i>Setaria veticillata</i>	C
Herringbonne grass	<i>Urochloa panicoides</i>	C

Sedges controlled by Integrity®

COMMON NAME	SCIENTIFIC NAME	C= Controlled S= Suppressed
Flat sedge rice	<i>Cyperus iria</i>	C
Yellow nutsedge	<i>Cyperus esculentus</i>	S

Broad leaf weeds controlled by Integrity™

COMMON NAME	SCIENTIFIC NAME	C= Controlled S=Suppressed
Velvetleaf	<i>Abutilon theophrasti</i>	C
Tropical whiteweed	<i>Ageratum conizoides</i>	C
Prostrate pigweed	<i>Amaranthus blitoides</i>	C
Smooth pigweed	<i>Amaranthus hybridus</i>	C
Palmer amaranth	<i>Amaranthus palmeri</i>	C
Redroot pigweed	<i>Amaranthus retroflexus</i>	C
Waterhemp	<i>Amaranthus tuberculatus</i>	C
Common ragweed	<i>Ambrosia artemisiifolia</i>	C
Giant ragweed	<i>Ambrosia trifida</i>	C
Hairy beggarticks	<i>Bidens pilosa</i>	C
Black mustard	<i>Brassica nigra</i>	C
Canola (rapeseed)	<i>Brassica spp.</i>	C
Common lambsquarters	<i>Chenopodium album</i>	C
Narrowleaf lambsquarters	<i>Chenopodium pratericola</i>	C

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Spindlepod	<i>Cleome monophyla</i>	C
Wondering Jew	<i>Commelina benghalensis</i>	S
Hairy fleabane	<i>Conyza bonariensis</i>	C
Wild lucerne	<i>Crotalaria sphaerocarpa</i>	C
Wild cucumber	<i>Cucumis zeyheri</i>	C
Fierce thornapple	<i>Datura ferox</i>	C
Jimson weed	<i>Datura stramonium</i>	C
Flix weed	<i>Descurainia sophia</i>	C
Florida beggarweed	<i>Desmodium tortuosum</i>	C
Common sunflower	<i>Helianthus annuus</i>	C
Venice mallow	<i>Hibiscus trionum</i>	C
Ivyleaf morning glory	<i>Ipomeoa hederacea</i>	C
Pitted morning glory	<i>Ipomeoa lacunosa</i>	C
Tall morning glory	<i>Ipomeoa purpurea</i>	C
Palmleaf morning glory	<i>Ipomeoa wrightii</i>	C
Entire leaf morning glory	<i>Ipomeoa hederacea var. integruscula</i>	C
Kochia	<i>Kochia scoparia</i>	C
Common mallow	<i>Malva neglecta</i>	C

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Little mallow (cheese weed)	<i>Malva parviflora</i>	C
Carpetweed	<i>Mollugo verticillata</i>	C
Cutleaf groundcherry	<i>Physalis angulata</i>	C
Prostrate knotweed	<i>Polygonum aviculare</i>	C
Wild buckwheat	<i>Polygonum convolvulus</i>	C
Pennsylvania smartweed	<i>Polygonum pennsylvanicum</i>	C
Lady's thumb	<i>Polygonum persicaria</i>	C
Common purslane	<i>Portulaca oleracea</i>	C
Pinnate false threadleaf	<i>Schkuhria pinnata</i>	C
Common groundsel	<i>Senecio vulgaris</i>	C
Hemp sesbania	<i>Sesbania exaltata</i>	C
Prickly sida	<i>Sida spinosa</i>	C
Wild mustard	<i>Sinapis arvensis</i>	C
Tumble mustard	<i>Sisymbrium altissimum</i>	C
Black nightshade	<i>Solanum nigrum</i>	C
Eastern black nightshade	<i>Solanum ptycanthum</i>	C
Hairy nightshade	<i>Solanum saccharoides</i>	C
Cutleaf nightshade	<i>Solanum triflorum</i>	C
Spiny sowthistle	<i>Sonchus asper</i>	C

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Annual sowthistle	<i>Sonchus oleraceus</i>	C
Dwarf marigold	<i>Tagetes minuta</i>	C
Field pennycress	<i>Thlaspi arvense</i>	C
Puncturevine	<i>Tribulus terrestris</i>	C
Common cocklebur	<i>Xanthium strumarium</i>	C



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