



We create chemistry

Integrity[®]

No weeds. No worries!



81082360 NVA 2017-05-320-0196

Integrity[®]

Registration No.
13-C-132-5-C-157-1



Net Volume:

1 LITRE

Composition

Saflufenacil
Dimethenamid-P

mass/volume

68 g/l

600 g/l

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

Registered by:

Pivotal Agro-Services (Pvt) Limited
Pivotal Agro House, 37 Kenmark Crescent
Bluff Hill Industrial Park, Harare, Zimbabwe
Telephone: +263 242 309825/27

Manufactured by:

BASF SE
Germany

Batch No.:

Date of Manufacture:

Expiry Date:

81116828ZW1047



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

WARNINGS/PRECAUTIONS:

1. Harmful when swallowed, inhaled or absorbed by skin. Handle with care.
2. Keep locked up out of reach of children, uninformed persons and animals.
3. Keep in the original container and store in a cool dry place away from food and feeds.
4. Irritating to skin and eyes; avoid contact, ingestion and inhalation.
5. May cause sensitization in contact with skin.
6. Do not apply Integrity® directly on water, it is toxic to fish, marine invertebrates and water plants.
7. Prolonged cool and wet weather conditions, excessive irrigation, seeds planted too deep or too shallow etc. may lead to crop damage.
8. Wear suitable protective clothing and face shield when handling the concentrate.
9. Wash with soap and water after using the product and contaminated clothing after use.
10. Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face after handling the product.
11. Avoid spray drift onto other crops, grazing, rivers, dams and areas not under treatment.
12. Clean applicator after use. Dispose off the washing water where it will not contaminate crops, grazing areas, rivers, dams or any other areas not under treatment.
13. 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 rinsings to the contents of the spray tank before destroying the container by perforation, flattening and burying, and never reuse it for any purpose.
14. Prevent contamination of food, feed, drinking water and eating utensils.
15. Do not allow workers (or other people) to enter the treated area within 12 hrs after application of Integrity®.
16. 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.

SYMPTOMS OF POISONING:

Prolonged or frequent skin contact may cause allergic reactions (skin irritation/sensitization) to some individuals. Accidental contact with eyes may cause temporary eye injury.

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 INHALED	Move the patient to where there is fresh air. Keep the patient calm. Seek medical attention.
IF IN EYES	Hold eyes open and rinse slowly and gently for 15 minutes with clean running water. Remove contact lenses if present after the first 5 minutes, then continue rinsing the eyes. Seek medical advice.
IF ON SKIN	Wash thoroughly immediately with plenty of clean water for 15-20 minutes. Remove contaminated clothing. Seek medical advice.
IF SWALLOWED	Rinse the mouth immediately and then drink 200-300ml of water. Call a doctor immediately for treatment advice. Do not induce vomiting unless told so by a doctor. Do not induce vomiting or give anything by mouth if the person is unconscious or having convulsions.

WARRANTY:

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that 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.

USE RESTRICTIONS:

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

1. Do not apply Integrity® on poorly drained soils or soils with a compaction layer.
2. Do not apply Integrity® on soils with a nutrient deficiency.
3. On inbred parent plants of maize hybrids or experimental or seed crops of any of the registered crops on Integrity® without consulting the advice of the distributor or manufacturer.
4. Do not spray Integrity® after the maize has germinated.
5. Do not apply Integrity® where organophosphate or carbamate insecticides are planned to be applied at planting.
6. Do not apply more than a maximum of 1.5 litres per hectare of Integrity® per cropping season.
7. Do not incorporate more than 3 cm deep.
8. If additional application is required do not exceed 85 g/ha a.i. of saflufenacil and 720 g/ha a.i. of dimethenamid-p per hectare in one season.

CROP TOLERANCE:

Maize is tolerant to Integrity® when applied according to label directions as a pre-emergent 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) to maize.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED**COMPATIBILITY:**

Integrity® can be tank mixed or applied sequentially with one or more, but not limited to the following herbicides Prowl® CS, atrazine and glyphosate.

(Prowl® CS is a trade mark of BASF)

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. Avoid spray drift to non-target areas.

Aerial application:

Aerial application of Integrity® may only be done by a qualified 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 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 to 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 aircraft must spray at 3 metres above the crop canopy, but do not compromise aircraft safety, at wind speed of 0-8km/h and at a height of 2 metres at wind speeds of 9-15km/h and stop spraying if the wind speed is above 15km/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 of water per hectare. 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 60cm 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- EMERGENT APPLICATION RATES:

Crop	Soil type	Dosage litres/hectare
Maize	Sandy- less than 10% clay	0.9
	Medium-10%-20% clay	1.0 - 1.1
	Heavy- more than 30% clay	1.2
Sugarcane	All soils	1.5

PRE- HARVEST INTERVAL:

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

Crop	Waiting Period
Maize, Sugarcane	100 days
Sweet corn	60 days
Grazing	40 days

RE- CROPPING GUIDELINES:

Withholding period for Integrity® following normal harvest of a crop treated with Integrity®, there is no restriction on planting any other crop. In the event of weather-induced crop failure of a crop treated with Integrity® alone the field can be replanted with any Integrity® registered crop.

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

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

WEEDS CONTROLLED BY INTEGRITY®**BROADLEAF WEEDS:**

COMMON NAME	SCIENTIFIC NAME	C= Controlled S=Suppressed
Starbur	<i>Amaranthus hispidum</i>	C
Canola, volunteer (rapeseed)	<i>Brassica</i> spp.	C
Cocklebur	<i>Xanthium strumarium</i>	C
Fleabane	<i>Conyza bonariensis</i>	C
Wild goosberry	<i>Physalis angulata</i>	C
Fat-hen	<i>Chenopodium album</i>	C
Stockrose	<i>Hibiscus trionum</i>	C
Morning glory	<i>Ipomea plebia</i>	C
Black nightshade	<i>Solanum nigrum</i>	C
Pigweed	<i>Amaranthus hybridus</i>	C
Devil's thorn	<i>Tribulus terrestris</i>	C
Common purslane	<i>Portulaca oleracea</i>	C
Sida	<i>Sida alba</i>	C
Annual sowthistle	<i>Sonchus oleraceus</i>	C
Spiny sowthistle	<i>Sonchus asper</i>	C
Common sunflower	<i>Helianthus annuus</i>	C
Waterhemp	<i>Amaranthus spinosus</i>	C

GRASS WEEDS:

COMMON NAME	SCIENTIFIC NAME	C= Controlled, S=Suppressed
Sweet signal grass	<i>Brachiaria eruciformis</i>	S
Finger grass	<i>Digitaria sanguinalis</i>	C
Tropical finger grass	<i>Digitaria ciliaris</i>	C
Barnyard grass	<i>Echinochloa crus-galli</i>	C
Rapoko grass	<i>Eleusine indica</i>	C
Guinea grass	<i>Panicum maximum</i>	C
Fox tail	<i>Setaria faberi</i>	C
Bristle grass	<i>Setaria pumila</i>	C
Bur grass	<i>Setaria veticillata</i>	C
Garden urochloa	<i>Urochloa panicoides</i>	C

SEDGES:

COMMON NAME	SCIENTIFIC NAME	C= Controlled, S=Suppressed
Yellow nutsedge	<i>Cyperus esculentus</i>	S



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