

READ THE LABEL BEFORE USING  
(SOMA KIBANDIKO CHA MAELEZO KABLA YA KUTUMIA)

KEEP LOCKED OUT OF REACH OF CHILDREN  
(WEKA MBALI NA WATOTO)

REGISTRATION NO. PCPB (CR) 1466  
(NAMBARI YA USAJILI)

**BASF**

We create chemistry

# Integrity<sup>®</sup> 668 EC

Emulsifiable Concentrate  
Herbicide (Kiuagugu)

GUARANTEE  
(DHAMANA)

Saflufenacil 68 g/l  
Dimethenamid-P 600 g/l

COMMERCIAL AND AGRICULTURAL CLASS  
(KUNDI LA KILIMO NA BIASHARA)

GROUP	KUNDI	K3 & E	HERBICIDE	KIUAGUGU
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A pre-emergent herbicide, for the control of annual grasses and annual broadleaf weeds (as indicated) in maize and sugarcane.

(Kiuagugu inayotumika kuyazuia magugu ya matawi mapana pamoja na aina za nyasi hasa zile zinazokuwa mwaka baada ya mwaka kwenye mahindi na miwa.

**Shelf life:** Two years from the date of manufacture in tightly sealed original unopened containers under cool and dry storage conditions.

**(Maisha Rafuni:** Miaka miwili kutoka tarehe ya kutengenezwa ikiwa katika chombo chake asili Kisichofunguliwa na ikiwekwa katika pahali pakavu pasipo na joto jingi).

**In case of poisoning call Toll Free number 0800720021 / 0800730030 (24 Hrs)**

**(Wakati wa madhara piga nambari bila malipo 0800720021 /0800730030 (masaa 24))**



MANUFACTURER / REGISTRANT  
(WATENGENEZAJI):  
BASF SE, GERMANY

AGENT (AJENTI):  
BASF EAST AFRICA LIMITED  
P.O. Box 24271-00100  
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TELEPHONE: +254 20 407-2000  
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MANUFACTURING DATE: SEE ANOTHER PLACE ON THE LABEL  
(TAREHE YA KUTENGENEZWA): (MAELEZO YAPO KWINGINE KWENYE KIBANDIKO HIKI)

BATCH NUMBER: SEE ANOTHER PLACE ON THE LABEL  
(NAMBARI YA FURUSHI): (MAELEZO YAPO KWINGINE KWENYE KIBANDIKO HIKI)

EXPIRY DATE: SEE ANOTHER PLACE ON THE LABEL  
(TUMIA KABLA YA): (MAELEZO YAPO KWINGINE KWENYE KIBANDIKO HIKI)



Protect to Provide  
MEMBERSHIP NUMBER AAK/220

® = Registered trademark of BASF  
81115769 NVA 2021-05-320-0372

81112612 KE1027



CAUTION  
TAHADHARI



**DIRECTIONS FOR USE:**

Integrity® 668 EC is a new, highly effective selective residual herbicide for pre-emergent application to control annual broadleaf weeds and most annual grass species in maize and sugarcane.

**MODE OF ACTION:**

Integrity® 668 EC contains active ingredients saflufenacil belonging to the pyrimidinedione and dimethenamid – P from chloroacetamide classes of herbicides. The modes of action of these groups are inhibition of protoporphyrinogen IX oxidase (PPO) and inhibition of cell division respectively

**MIXING INSTRUCTIONS:**

1. Half fill the spray tank with clean water and start agitation.
2. Shake the Integrity® 668 EC container well before opening and measure the required amount of Integrity® 668 EC and add into the spray tank.
3. Add clean water and continue agitation or recirculation to the recommended volume.
4. Homogenize the spray wash by agitation (e.g. recirculation or stirring) during spraying.
5. The prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

**RATE OF APPLICATION/SPRAY INTERVAL:**

Crop	Target Weed	Rate (l/ha)	Remarks
Maize	Annual broadleaf weeds and most annual grass weeds species.	1.0 l/ha in 200 l water (100 ml in 20 l water).	Pre-emergence of the crop and weed application.
Sugarcane		1.5 l/ha in 200 l water (150 ml/ 20 l water).	

**NOTE:** Do not apply if the crop has germinated. Severe crop injuries will occur if Integrity® 668 EC is applied over the top of the crop. Do not apply on sandy soil.

**USE RESTRICTIONS:**

Do not apply Integrity® 668 EC in the following situations as crop damage may occur:

- On poorly drained soils or soils with a compaction layer.
- On soils with a nutrient deficiency.
- On inbred parent plants of maize hybrids or experimental or seed crops of any of the registered crops on Integrity® 668 EC without consulting the advice of the distributor or manufacturer.
- After the maize has germinated.
- If organophosphate or carbamate insecticides are planned to be applied at planting.
- Do not apply more than a maximum of 1.5 litres per hectare of Integrity® 668 EC per cropping season.
- Do not incorporate more than 3 cm deep.

**WEEDS CONTROLLED INCLUDE:**

<b>Broadleaf weeds</b>	
Pigweed	<i>Amaranthus hybridus</i>
Blackjack	<i>Bidens pilosa</i>
White goosefoot	<i>Chenopodium album</i>
Jimsonweed	<i>Datura stramonium</i>
Shaggy solider	<i>Galinsoga parviflora</i>
Apple of Peru	<i>Nicandra physalodes</i>
Common purslane	<i>Portulaca oleracea</i>
Black nightshade	<i>Solanum nigrum</i>
Sowthistle	<i>Sonchus arvensis</i>
And many others	

<b>Grasses</b>	
Goosegrass	<i>Eleusine indica</i>
Annual timothy	<i>Setaria pumila</i>
And many others	

Integrity® 668 EC is also able to suppress yellow nutsedge (*Cyperus esculentus*)

**PRE-HARVEST-INTERVAL:** maize 35 days, sugarcane 38 days

**WAITING PERIOD FOR FOLLOW-UP CROPS:**

Integrity® 668 EC relies on soil residual activity for extended weed control in maize and sugarcane. To avoid possible damage to follow-up crops, the waiting periods as indicated below should be adhered to between the last application of Integrity® 668 EC and the planting of the follow-up crop.

However, the waiting periods mentioned here will only be valid if the standard, recommended Integrity® 668 EC rate was applied.

CROP	WAITING PERIOD
Maize, sugarcane	No waiting period
Grain sorghum	4 Weeks
Wheat, barley	18 Weeks
Beans, soybeans, groundnuts, peas	20 Weeks
All other crops	36 Weeks

In case of crop failure and a subsequent replant with maize, do not reapply Integrity® 668 EC under such conditions. Alternative options should be selected.

#### RE-ENTRY INTERVAL:

As soon spray dries

#### RESISTANCE MANAGEMENT:

Integrity® 668 EC contains active ingredients belonging to the pyrimidinedione and chloroacetamide classes of herbicides. The modes of action of these groups are inhibition of protoporphyrinogen IX oxidase (PPO) and inhibition of cell division respectively, and as such it is classified by HRAC as a group codes E and K3 herbicide. Certain naturally-occurring weed biotypes, resistant to HRAC group codes E and K3 herbicides, may exist through normal genetic variability in any weed population.

These resistant individuals can eventually dominate the weed population if these groups of herbicides are used repeatedly. These resistant weeds will not be controlled by Integrity® 668 EC and are unlikely to be controlled by other herbicides of group codes E and K3.

Since the presence of resistant weeds is difficult to detect prior to herbicide application, it is of the utmost importance that treated areas be inspected at regular intervals, to timeously identify the occurrence of herbicide resistant weeds.

To delay herbicide resistance:

- Avoid exclusive, repeated use of herbicides, from the same herbicide group codes.
- Integrate other control methods (chemical rotation, cultural, crop rotation, biological) into weed control programmes.

#### SAFETY PRECAUTIONS:

Wear suitable protective clothing (coveralls) and suitable protective gloves when handling the concentrate or contaminated surfaces. Wear safety glasses and body protection garments.

Wash hands and/or face before breaks and at the end of the shift. Do not eat drink, or smoke when handling this product. Prevent spray drifts onto other crops, grazing, rivers and dams.

#### STORAGE:

Keep away from food, drink and animal feeds. Keep out of reach of children

Do not re-use container for any other purpose. Store in original container tightly closed, in a safe place.

Keep away from heat. Protect against moisture and protect from direct sunlight.

#### WASTE DISPOSAL:

On emptying the container, rinse thoroughly by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of container safely in accordance with national regulation.

#### LEAKS AND SPILLS:

Wear protective clothing as outlined above. Sweep up with spill control material or suitable absorbent material e.g. sand, sawdust or general purpose binder. Clean contaminated floors and objects thoroughly with water and detergents.

#### ENVIRONMENTAL PROTECTION:

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads. May cause sensitization by skin contact. Causes serious eye irritation. Causes mild skin irritation. May be harmful if inhaled. May be harmful if swallowed. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects. Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

#### FIRST AID MEASURES:

**General advice:** Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. If difficulties occur in breathing, obtain medical attention. Show container, label and /or safety data sheet to physician.

**If Inhaled:** Keep person calm, remove to fresh air, and seek medical attention.

**Eye contact:** Immediately wash affected eyes for at least 15 minutes under running water, with eyelids open. Consult an eye specialist.

**Skin contact:** After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

**Ingestion:** Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless instructed by a poison control centre or doctor.

#### TAKE PATIENT TO DOCTOR

#### TOXICOLOGICAL INFORMATION:

**Signs and Symptoms of Poisoning:** no cases of human poisoning have been reported

**Poisoning Antidote:** There is no specific antidote. Treat symptomatically.

**Note to Physician:** Treat according to symptoms (decontamination, vital functions), no known specific antidote.

**In case of poisoning call Toll Free number 0800720021/0800730030 (24 Hrs)**

#### NOTICE TO USERS:

This pest control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use or store a pest control product under unsafe conditions.

#### WARRANTY:

Seller's guarantee is limited to the terms set out on this label and subject there to the buyer who assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

**MAPENDEKEZO YA UTUMIAJI:**

Integrity® 668 EC ni aina mpya ya kiuagugu inayotumika kuyazuia magugu ya matawi makubwa pamoja na aina za nyasi hasa zile zinazokuwa mwaka baada ya mwaka. Kiuagugu hiki kinachochagua mahindi na miwa. Kinatumika kabla ya mmea na magugu kuota.

**JINSI INAVYOFANYA KAZI:**

Integrity® 668 EC ina kiambato amalifu Saflufenacil ya kikundi cha magugu walio katika pyrimidinedione na Dimethenamid – P ya kikundi cha magugu katika chloroacetamide. Utendaji kazi wake ni kuzuia protoporphyrinogen IX oxidase (PPO na mgawanyiko wa seli.

**MAELEZO YA MATUMIZI:**

1. Jaza tanki la kunyunyizia na maji safi hadi nusu.
2. Tingiza dawa vizuri kabla ya kuifungua kisha upime kiasi cha Integrity® 668 EC kinachohitajika na uongeze kwenye tanki la kunyunyizia.
3. Jaza tanki hilo na maji safi na uendeleee kuchanganya na kutikisa.
4. Endelea kukoroga vizuri unaponyunyizia.
5. Mchanganyiko wa dawa uliotayari haipaswi kuwachwa kwa tanki kwa muda mrefu kwa mfano usiku kucha.

**KIPIMO CHA KUTUMIA/MUDA WA KURUDIA:**

Mmea	Magugu	Kipimo(L/ha)	Maelezo
Mahindi	Magugu ya matawi makubwa pamoja na aina za nyasi hasa	Lita 1.0/hekta kwenye lita 200 za maji (mililita 100/Lita 20 za maji)	Hakikisha umenyunyizia kabla ya magugu na mmea kuota
Miwa	Zile zinazokuwa mwaka baada ya mwaka.	Lita 1.5/hekta kwenye lita 200 za maji (mililita 150/ Lita 20 za maji).	

**KUMBUKA:**

Usitumie kama mmea umeshaota. Inaweza kudhuru mmea inaponyunyiziwa juu yake. Usinyunyize dawa hii kwenye mchanga mwepesi.

**TAHADHARI YA MATUMIZI:**

Usinyunyize Integrity® 668 EC kwenye udongo usiopitisha maji vizuri au udongo uliyo na safu mgumu. Usinyunyize Integrity® 668 EC kwenye udongo usiokuwa na rotuba ya kutosha. Usitumie Integrity® 668 EC kwa mahindi iliyojaliwa na wazazi wa nasaba moja au walio katika majaribio au kwa mbegu zozote zilizosajiliwa, kabla ya kupata ushauri kutoka kwa watengenezaji au wasambazaji wa Integrity® 668 EC. Usinyunyize Integrity® 668 EC kama mahindi imeshaota. Usinyunyize Integrity® 668 EC mahali ambapo viudadu vya kundi la organophosphate au carbamate wanakusudiwa kutumika wakati wa kupanda. Usinyunyize zaidi ya lita 1.5 kwa hekta kwenye mazao ya msimu moja. Usipenyeze dawa zaidi ya sentimita tatu.

**MAGUGU YANAYOZUIWA:**

Magugu ya matawi mapana	
Pigweed	<i>Amaranthus hybridus</i>
Blackjack	<i>Bidens pilosa</i>
White goosefoot	<i>Chenopodium album</i>
Jimsonweed	<i>Datura stramonium</i>
Shaggy solider	<i>Galinsoga parviflora</i>
Apple of Peru	<i>Nicandra physalodes</i>
Common purslane	<i>Portulaca oleracea</i>
Black nightshade	<i>Solanum nigrum</i>
Sowthistle	<i>Sonchus arvensis</i>
na mengineo	

Magugu aina ya nyasi	
Goosegrass	<i>Eleusine indica</i>
Annual timothy	<i>Setaria pumila</i>
na mengineo	

**MUDA SALAMA WA KUNGOJA KABLA YA KUVUNA MAHINDI NA MIWA:** mahindi siku 35, miwa siku 38

**MUDA WA KUSUBIRI KWA MAZAO YA KUFUATILIA:**

- Integrity® 668 EC hutegemea udongo mabaki kwa ajili ya kudhibiti magugu katika mahindi na miwa. Ili kuepuka uharibifu iwezekanavyo kwa mazao yatakayofuatilia, muda wa kusubiri kama ifuatavyo lazima kuzingatiwa kutoka matumizi ya mwisho ya Integrity® 668 EC na upandaji wa mazao yatakayofuatilia.
- Hata hivyo, vipindi kusubiri vilivyotajwa hapa vitakuwa tu halali kama; kiwango cha Integrity® 668 EC kilichopendekezwa kilitumika ipasavyo.

<b>MMEA</b>	<b>MUDA WA KUSUBIRI</b>
Mahindi, miwa	Hakuna muda wa kusubiri
Mtama wa nafaka	Wiki nne
Ngano, Shayiri	Wiki kumi na nane
Maharagwe, maharagwe aina ya soya, njugu, njegere	Wiki Ishirini
Mazao mengine yote	Wiki thelathini na sita

### MUDA SALAMA WA KUINGIA BAADA YA KUNYUNYIZIA KIUAGUGU:

Kiuakuvu kinapokauka

### UZOEFU WA MAGUGU:

Integrity® 668 EC ina kiambato amalifu ya kikundi cha magugu walio katika pyrimidinedione na chloroacetamide. Utendaji kazi wake ni kuzuia protoporphyrinogen IX oxidase (PPO) na mgawanyiko wa seli na hivyo basi hupatikana katika kundi la HRAC E na K3 herbicide. Idadi yeyote ya magugu yaweza kuwa na magugu yaliyosugu kwa Integrity® 668 EC na kiuagugu wengine wa Code E na K3.

Kuchelewesha uzoefu wa Magugu;

- Kwa kuzuia uzoefu wa magugu kutokana na mchanganyiko huu, viuagugu hivi na vingine vya kikundi kimoja na hiki vinapendekezwa visifuatanishwe na mchanganyiko huu kwenye msimu mmoja.
- Kwa mchanganyiko au kufuatanisha na viuagugu vingine vya vikundi tofauti, angalia kwenye vibandiko vya matumizi.
- Uunganisha na njia nyingine ya udhibiti kama vile (kemikali kiutamaduni, mzunguko wa mazao, kibayolojia), katika mipango ya kuzuia kwekwe

### JINSI YA KUJIKINGA:

Jikinga na hali yoyote kushika dawa hii. Usile, usinywe wala usivute sigara unapotumia dawa hii. Unapotumia dawa ya Integrity® 668 EC linda macho ukitumia miwani iliyopendekezwa, vaa nguo za kujikinga kama vile glavu na ovaroli. Osha mikono na ngozi iliyomwagikiwa kabla ya kula, kunywa, kuvuta sigara ama kwenda kwa haja. Oga mwili na sabuni na maji mengi baada ya kazi na ufue nguo za kujikinga na madhara ya dawa kabla ya kuzitumia tena.

### KUHIFADHI:

Hifadhi dawa ndani ya pakiti yake asili mahali ambapo ni salama, kavu, na hakuna joto nyingi, penye hewa nyingi na ni mbali na chakula na watoto hawawezi kufikia. Hifadhi mahali palipo na joto isiyochini ya nyuzi -5 au zaidi ya nyuzi 35.

### UTUPAJI:

Osha chombo cha dawa mara tatu na umwage ule mwosho kwenya tanki la kunyunyizia. Haribu chombo cha dawa baada ya kuitumia dawa yote iliyomo halafu utupe mahali pazuri mbali na mto kuambatana na sheria zilizoko.

### DAWA IKIMWAGIKA:

Jikinga na nguo na vifaa vya kuzuia madhara ya dawa. Panguza dawa iliyomwagika na mchanga au vumbi inayopatikana wakati mbaao inapopasuliwa (sawdust). Osha mahali au vifaa vilivyomwagikiwa na dawa kwa maji mengi na sabuni.

### HADHARA KWA MAZINGIRA:

Usichafue vidimbwi vya maji kwa dawa hii au mabaki yake. Usioshe vombo vilivyotumika karibu na mito. Usimwage mabaki kwenye nyumba za wanyama au barabara. Ina madhara kwa samaki na viumbe vingine vinavyoishi kwenye maji. Usichafue vidimbwi vya maji kwa dawa hii au mabaki yake. Usioshe vyombo vilivyotumika karibu na mito. Usimwage mabaki kwenye udongo au mito. Yaweza sababisha kuwasha kwa macho. Yaweza sababisha kuwasha kwa ngozi kwa kiasi kidogo. Inaweza kudhuru ikipumuliwa. Inaweza kudhuru ikimezwa. Inaweza sababisha ngozi mzio kwenye ngozi. Inashukiwa kusababisha kansa. Inaweza sababisha mwasho kwenye njia ya kupumulia. Yaweza sababisha madhara kwa mtoto mabaye hajazaliwa.

### HUDUMA YA KWANZA:

**Mashauri:** Hakikisha dawa isimwagikie ngozi, macho na mavazi. Vaa mavazi yenye dawa mara moja. Ukihisi hali mbaya ya afya utumiapo dawa hii, tafadhali muone daktari na umuonyeshe kibandiko cha dawa  
**Ikiutwa:** Peleka mhadhiriwa mahali penye hewa safi na umweke akiwa mtulivu. Mpeleke kwa daktari hii.

**Ikiingia kwa Macho:** Osha macho kwa maji mengi yanayotiririka kwa muda wa dakika 15.

**Ikishika Ngozi:** Vaa mavazi yenye dawa mara moja na usafishe ngozi iliyopata dawa kwa maji mengi. Osha mahali palipopata dawa kwa maji na sabuni.

**Ikimezwa:** Osha mdomo mara moja. Kunywa maji mengi na umuone daktari. Usimtapishe mhadhiriwa isipokuwa daktari akisema. Usimtapishe au kumpa mhadhiriwa kitu chochote kupitia kwa mdomo kama amezimia.

### PELEKA MJERUHI KWA DAKTARI

### MAELEZO KUHUSU SUMU:

**Dalili ya kusumika:** Hakuna mahali kiuagugu hiki kimeonekana kuwadhuru watu.

**Tiba:** Hakuna tiba ijulikana kwa sasa. Tibu kufuatia dalili za ugonjwa.

**Maagizo kwa daktari:** Tibu mgonjwa kulingana na dalili za ugonjwa.

**Kukiwa na madhara yoyote piga nambari bila malipo kwa 0800720021/ 0800730030 (Masaa 24)**

**ILANI KWA WATUMIAJI:** Dawa hii sharti itumiwe kulingana na maagizo yaliyo kwenye kibandiko hiki tu. Ni hatia chini ya Sheria za madawa yakuangamiza wadudu waharibifu kutumia au kuhifadhi dawa hii katika hali isiyosalama

### THIBITISHO:

Dhamana ya Muuzaji ni maelezo yaliyo kwenye kibandiko ambayo ni lazima yafuatwe kikamilifu. Mnunuzi lazima akubali hatari zozote zinazoweza kutokana na matumizi ya dawa hii kwa binadamu au mali na lazima aikubali dawa hii katika hali hiy









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Herbicide (Kiuagugu)

GUARANTEE  
(DHAMANA)

Saflufenacil 68 g/l  
Dimethenamid-P 600 g/l

COMMERCIAL AND AGRICULTURAL CLASS  
(KUNDI LA KILIMO NA BIASHARA)

GROUP	KUNDI	K3 & E	HERBICIDE	KIUAGUGU
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A pre-emergent herbicide, for the control of annual grasses and annual broadleaf weeds (as indicated) in maize and sugarcane.

(Kiuagugu inayotumika kuyazuia magugu ya matawi mapana pamoja na aina za nyasi hasa zile zinazokuwa mwaka baada ya mwaka kwenye mahindi na miwa.

**Shelf life:** Two years from the date of manufacture in tightly sealed original unopened containers under cool and dry storage conditions.

**(Maisha Rafuni:** Miaka miwili kutoka tarehe ya kutengenezwa ikiwa katika chombo chake asili Kisichofunguliwa na ikiwekwa katika pahali pakavu pasipo na joto jingi).

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**(Wakati wa madhara piga nambari bila malipo 0800720021 / 0800730030 (masaa 24))**

Net Content / Kipimo Kamili: **1 L**

WHO Class III: Slightly Hazardous



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(NAMBARI YA USAJILI)

MANUFACTURER / REGISTRANT  
(WATENGENEZAJI):  
BASF SE, GERMANY

AGENT (AJENTI):  
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P.O. Box 24271-00100  
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