

COMMERCIAL AND AGRICULTURAL CLASS.
READ LABEL AND ATTACHED PACKAGING LEAFLET BEFORE USING.

KEEP LOCKED OUT
OF REACH OF CHILDREN.

FUNGIA MBALI NA WATOTO.

KUNDI LA BIASHARA NA KILIMO.
SOMA MAELEZO YOTE KWENYE FURUSI
NA UKURUSA ULIOBANDIKWA KWA
FURUSI.

Shelf life: 2 years from date of manufacture in original sealed containers.

Maisha rafuni: Miaka miwili kuanzia tarehe ya kutengenezwa ikiwa imehifadhiwa katika viwekeo vyake asili vilivyofungwa vizuri.

In case of an emergency

Call Toll free No.:

Kukiwa na jambo la dharura piga simu isitotzwa Nambari:
0800 720 021 / 0800 730 030 (24 hr).

® Registered Trademark
of a Syngenta Group Company

Manufacturer: / Watengenezaji:
Syngenta Crop Protection AG
Basle, Switzerland

L1017491 KENY/01U PPE 4062518

 **Lumax® 537.5 SE**

syngenta®



Suspo-Emulsion
Herbicide for pre- and
early post-emergence
control of grasses
and broad leaf weeds in

sugarcane and maize

Huchanganyika na maji

Kiuamagugu kwa ajili ya kuzuia magugu
ya aina ya nyasi na majani mapana
kwenye mahindi na miwa.

GUARANTEE: / DHAMANA:

Mesotrione: 37.5 g/Lt, S-metolachlor: 375 g/Lt,
Terbutylazine: 125 g/Lt.

REGISTRATION NO. / NAMBARI YA KUSAJILIWA
PCPB(CR) 0556

Net Content: 1 Litre
Ujazo: Lita 1



CAUTION



Date of manufacture/Tarehe ya
kutengeneza:

Expiry date/Tumia kabla ya:

Batch no./Nambari ya kifurushi:

750ml

Distributor / Wauzaji:

Syngenta East Africa Ltd.

P.O. Box 30393

00100 Nairobi, Kenya

Tel.: 254-0703018000/9000

Fax: 254-020-3007885

MEMBER OF
AGROCHEMICAL
ASSOCIATION
OF KENYA
MEMBERSHIP NO. 226



500ml

250ml

approx. measure

Product names marked ® or ™ the ALLIANCE FRAME
the SYNGENTA Logo and the PURPOSE ICON
are Trademarks of a Syngenta Group Company

Suspó-Emulsion.

Herbicide for pre- and early post-emergence control of grasses and broad leaf weeds in sugarcane and maize.

Active ingredient content

Mesotrione: 37.5 g/lit + S-metolachlor: 375 g/lit + Terbutylazine: 125 g/lit.

Mode of Action: Lumax® is a selective herbicide with three active ingredients all with different bio chemical modes of action and mechanism of uptake.

Mesotrione acts by blocking the function of the essential plant enzyme HPPD and is taken up by the roots, shoots and leaves of weed seedlings. S-metolachlor is an inhibitor of cell division and elongation. Mainly taken up by the shoots of germinating seedlings with some uptake via the roots. Terbutylazine is an inhibitor of photosynthesis. Mainly taken up by the roots of weed seedlings but some uptake occur via the leaves or shoots.

Spectrum of Activity

Lumax® is active against a wide spectrum of the key grass and broadleaf weeds present in sugarcane and maize. Use rates range from 3.0-4.0 lt/ha depending on weed spectrum.

Grasses

Brachiaria platyphylla.....*Echinochloa crus-galli*
Cenchrus incertus*Eleusine indica*
Dactyloctenium aegyptium.....*Eriochloa* spp.
Digitaria spp.*Setaria* spp.
Panicum spp.

Sedges

Cyperus esculentus

Broad leaf weeds

Abutilon theophrasti*Datura stramonium*
Amaranthus spp.*Galinsoga parviflora*
Ambrosia spp.*Ipomea hederacea*
Atriplex patula.....*Polygonum* spp.
Cannabis sativa*Portulaca oleracea*
Capsella bursa-pastoris.....*Richardia scabra*
Chenopodium album.....*Solanum* spp.
Cirsium arvense.....*Sonchus arvensis*

Tolerance

Lumax® gives excellent crop tolerance when applied up to 10 days pre-planting, pre-emergence or early post emergence of maize and sugarcane.

NOTE:

- Lumax® should not be applied either post emergence in a tank mix with an organophosphate or carbamate insecticide or if the crop has been treated with an organophosphate or carbamate insecticide to prevent crop damage.
- If there is no significant rainfall within 7 days of application the performance of Lumax® maybe reduced.
- Do not graze or feed forage from treated areas 45 days following application

Resistance Management: Naturally occurring biotypes of certain broad leaf species with resistance to triazines or ALS herbicides are known to exist. However no known resistance to the combination of herbicides in Lumax® exist and there are no known instances of cross resistance between

this herbicide and other herbicides. As the active ingredients in Lumax® act in three different modes of action this forms an excellent resistance management strategy. However use in rotation with other herbicides with different modes of action and in combination with cultural methods is the best defence against development of resistant weeds.

Rotation and minimum re-cropping interval: Maize maybe replanted immediately while sunflower may be planted (ploughing required), following application of Lumax® to maize in the previous year. Do not plant alfalfa, tobacco, potato, vegetables, peas, beans or small seeded legumes within 18 months following application of Lumax®. Do not follow Lumax® with applications of other mesotrione or sulcotrione containing products within the same growing season.

Additives: The post-emergence activity of Lumax® can be improved especially, by use of non-ionic surfactant or crop oil concentrate. Use of nitrogen based adjuvants (AMS or UAN) or methylated seed oil may result in severe crop injury if applied after crop emergence.

DIRECTIONS FOR USE

On sugarcane Lumax® can be used on plant and ratoon cane as pre and post emergence application. Lumax® can be used in all maize tillage systems from conventional to no till. A burndown herbicide such as Gramoxone® or Touchdown Forte® may be tank mixed with Lumax® if emerged weeds are present at the time of application.

CROP	Time of application	Rate of application lt/ha
Sugarcane plant	Pre- to early post-emergence to weeds	4
* Sugarcane ratoon	Pre- to early post-emergence to weeds	4
Maize	Pre-emergence	4

* In ratoon and in early post emergence situations it can be tank mixed with **Gramoxone® 0.5 lt/ha or Touchdown Forte® 1 tr/ha** to kill emerged weeds. Tank mix with Gramoxone® in ratoon cane can cause damage to cane so should be used inter-row. Do not apply later than spike stage of the crop.

For good control of grasses they should be 2-3 leaves without tillers and broad leaf weeds 4-6 leaf stages. Residual activity of 10-12 weeks can be expected under favourable conditions.

Lumax® can be used in drip irrigation cropping systems though it isn't sufficient to activate and distribute Lumax® in the absence of rainfall. Overhead irrigation should be at least 20 mm. It should not be used in flood irrigation systems other than for achieving post emergence knockdown. It reduces the activity of Lumax®.

Application Technique

Spray equipment

Lumax® may be applied with any medium or high volume sprayer, which is capable of adequate coverage and even distribution. Best results are obtained using flat fan-type nozzle with spray volumes of 200 lt/ha. AERIAL APPLICATION IS NOT RECOMMENDED.

Mixing: The spray tank must be clean, thoroughly rinsed and decontaminated before adding Lumax®.

Used alone: Add recommended amount to the spray tank when tank is half full, add rest of the water or fluid fertiliser. Provide sufficient agitation during mixing.

Cleaning equipment after application

To avoid subsequent injury to crops other than sugarcane and maize, clean application equipment thoroughly immediately after spraying.

- Drain the spray system completely. Flush tank, hoses, boom and nozzles with clean water.
- When available use a pressure washer to clean the inside of the spray tank. 1/2 fill the spray tank with water and start agitation for at least 15 min. Flush hoses, spray lines and nozzles for at least 1 min.
- Dispose the rinsate in an appropriate manner. Repeat the above steps. Remove nozzles, screens, strainers and clean separately in water. Rinse the whole system with water.

Storage: Store away from sun and damp in original tightly closed containers in a well ventilated area. Avoid storage above +35°C. Prolonged storage above +35°C may reduce shelf life and activity of the product. DO NOT stack in piles more than 2 m high to avoid product compaction or damage.

Precautions:

KEEP LOCKED OUT OF REACH OF CHILDREN, unauthorised persons and animals.

Operator safety:

Avoid any contact of skin, eyes or clothing. Avoid inhalation of vapour or spray mist. Do not eat or smoke while handling the product. Wash hands and face before eating, drinking or smoking. If indisposition occurs, stop work, follow First Aid measures, and call a physician.

Wear protective clothing and footwear during application. Wash off splashes of concentrate and spray mixture. After work wash entire body thoroughly with soap. Clean protective clothing, equipment and shoes before re-use.

Environment and wildlife:

Avoid drift to other crops. DO NOT apply, drain or flush equipment on or near trees or other plants. DO NOT contaminate water used for irrigation or domestic purposes and water areas such as ponds, ditches, lakes, drainage systems. Newly treated areas must not be grazed and all livestock is to be kept out.

Product and container disposals:

Do not re-use empty containers for any other purposes. Rinse the containers several times and add the rinsate to the spray tank. Then dispose the containers in a landfill site or dispose of in a safe place. Stay away from the smoke. Collect up spilt material thoroughly and dispose of it in a safe place. Rinse spill area with plenty of water. Dispose surplus product on a landfill site approved for pesticides or dispose of away from water supplies.

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FIRST AID: INSTRUCTIONS: If poisoning is suspected, stop work immediately and call a physician. Show label to the physician. In case of contact with skin, remove contaminated clothing; wash affected body parts immediately with plenty of water and soap. Rinse splashes from eyes with fresh clean water for 15 minutes. If inhaled move to clean air. If swallowed repeatedly administer medicinal charcoal in plenty of water. Seek medical advice immediately.

NOTE: Never give anything by mouth to an unconscious patient and never induce vomiting.

Antidote:

No specific antidote is known. Apply symptomatic therapy.

In case of an emergency Call Toll free No.:

0800 720021 / 0800 730030 (24 hr).

NOTICE TO USER: 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: Sellers guarantee is limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product in that condition.

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Huchanganyika na maji.

Kiuamagugu kwa ajili ya kuzuia magugu kwenye mahindi na miwa.

Kiambato amalifu

Mesotrione 37.5 g/lit + S-metolachlor 375 g/lit + Terbutylazine 125 g/lit.

Namna ya uamalifu: Lumax® ni kiuamagugu kinachoua magugu jamii ya nyasi na majani mapana katika miwa na mahindi. Lumax® ina dawa aina tatu na hufanya kazi kwa njia tofauti na huingia kwenye mimea kwa kupitia njia tofauti.

S-metolachlor huingia kwenye mimea kupitia mashine ya mbegu inayoota na pia kwenye mizizi. Terbutylazine huchukuliwa na mimea kupitia hasa kwenye mizizi lakini pia kupitia kwenye mashina au majani. Mesotrione hufanya kazi kwa kuzui utendaji kazi wa kimenge'enyoka cha mimea kiitwacho HPPD.

Mweneo wa matumizi

Lumax® ina mweneo mpana wa kuzuia magugu kwenye miwa na mahindi, kwa kiwango cha lita 3.0-4.0 kwa hekta kutegemea aina ya magugu.

Magugu aina ya nyasi

Brachiaria platyphylla.....*Echinochloa crus-galli*

Cenchrus incertus*Eleusine indica*

Dactyloctenium aegyptium.....*Eriochloa* spp.

Digitaria spp.*Setaria* spp.

Panicum spp.

Ndago

Cyperus esculentus

Magugu ya mboga mboga

Abutilon theophrasti*Datura stramonium*

Amaranthus spp.*Galinsoga parviflora*

Ambrosia spp.*Ipomea hederacea*

Atriplex patula.....*Polygonum* spp.

Cannabis sativa*Portulaca oleracea*

Capsella bursa-pastoris.....*Richardia scabra*

Chenopodium album.....*Solanum* spp.

Cirsium arvense.....*Sonchus arvensis*

Ustahimilivu: Lumax® huvumiliwa vizuri na mazao ikiwa itanyunyizwa hadi muda wa siku 10 kabla ya kupanda, kabla ya kuota au baada ya kuota kwa mahindi na miwa.

Vikomo

- Kiuawadudu chochote chaweza kutumika ikiwa Lumax® itanyunyizwa kabla ya mazao kuota. Kama ni baada ya mazao kuota isichanganywe na viywa wadudu wa jamii ya organophosphates au carbamates.
- Ikiwa hamna mvua siku 7 baada ya kunyunyizwa Lumax® ufanisi wake unaweza kupungua.
- Usilishe mifugo kwenye shamba lililonyunyizwa Lumax® kabla ya siku 45 kupita baada ya kunyunyiza. Usivune mazao kabla ya siku 45 baada ya kunyunyiza Lumax® zitimie.

Kuzuia ukinzani: Matumizi ya dawa hii katika mzunguko na viuamagugu vya namna moja ya utendaji kazi yaweza kuleta ukinzani.

Aina fulani ya magugu ya jamii ya mboga zinajulikana kuwa na ukinzani kwa viuamagugu vya triazines. Hata hivyo hakuna ukinzani unaojulikana kwa kuchanganya dawa zilizomo kwenye Lumax®. Mbinu bora za matumizi na utunzaji mzuri wa mazao vinaweza kupunguza uwezekano wa kuji-tokeza ukinzani.

Mzunguko wa mazao ya aina nyingine

Mahindi yaweza kupandwa tena mara tu uotaji ukionekana uko mbaya bila kurudia unyunyizaji wa Lumax®. Alizeti yaweza kupandwa baada ya kukatua kunyunyizwa Lumax® msimu uliopita. Usipande tumbaku, viazi, mboga, maharagwe au njegere na mikunde baada ya miezi 18 kupita baada ya kunyunyizwa Lumax®, au sivyo mazao yaweza kuathirika. Usinyunyize Lumax® na dawa zingine zenye mesotrione au sulcotrione katika msimu mmoja.

Nyongeza: Ufanyaji kazi wa Lumax® iliyonyunyizwa baada ya kuota huweza kuborehwa kwa kutumia vilowanisho. Hata hivyo kama mazao yamesha ota vilowaanisho vitokanavyo na mafuta ya mbegu vyaweza kuathiri mazao kwa muda. Matumizi ya vilowanisho vyenye nitrogen (AMS au UAN) yaweza kudhuru mazao.

MAELEZO JUU YA MATUMIZI

Miwa: Lumax® yaweza kutumika kwenye miwa ya kupanda au machipikizi. Lumax® inyunyizwe kabla magugu hayajaota. Ikiwa itanyunyizwa baada ya magugu kuota, wakati wa kunyunyiza ichanganywe na Gramoxone® au Touchdown Forte® ili kuua magugu yalikuwisha kuota.

Mahindi: Lumax® yaweza kutumika katika aina yoyote ya kilimo cha mahindi kama vile kupanda bila kukatua na kilimo cha kukatua kabla ya kupanda.

Zao	Wakati wa Kunyunyizia	Kiasi cha dawa/ha
Miwa ya Kupanda	Kabla na baada ya magugu haya-jaota	4
* Miwa ya maotea	kabla na baada ya magugu haya-jaota	4
Mahindi	kabla ya kuota	4

* Yaweza kuchanganywa na nusu lita Gramoxone® au lita 1 Touchdown Forte® ili kuua magugu yaliyokwisha kuota. Kuhakikisha Gramoxone® haijadhuru miwa nyunyiza katikakati ya miwa.

Ili kuamgamiza nyasi matawi yake yawe 2-3 na kwa magugu yenye matawi mapana yawe 4-6. Inafanya kazi wiki 10-12. Lumax® yaweza kutumika kwa drip irrigation ingawa matokeo yake si nzuri mvua isiponyesha. Kwa overhead irrigation maji yawe angalau 20 mm. Lumax® isitumike kwa flood irrigation kwani nguvu zake zinapunguza.

MAELEZO JUU YA UNYUNYIZAJI

Bomba la kunyunyiza

Bomba lolote lenye uwezo kwa mtawanyiko mzuri wa dawa lina weza kutumika kwa unyunyizaji wa Lumax®. Matokeo mazuri hupatikana kwa kutumia vipenyo vya «flat fan». Tumia lita 200/ha za maji.

HAIPENDEKEZWI KUNYUNYIZA LUMAX® KWA NDEGE AU KUTOKA ANGANI.

Uchanganyikaji: Tanki la bomba lazima liwe safi lililooshwa vizuri na kutoa mabaki yote ya dawa kabla ya kuweka Lumax®. Kama Lumax® itatumika peke yake weka kiasi kinachotakiwa kwenye tanki lililolajwa nusu kwa maji safi. Koroga vizuri, na kisha jazia kiasi kilichobaki cha maji hadi kujaza tanki.

Kuchanganya na dawa zingine zingatia maelezo ya jinsi ya kuchanganya ambayo yanayo weza kuwa tofauti na yaliotolewa hapa. Baada ya kuthibitisha utangamano wa dawa unazotaka kuchanganya jaza nusu tanki kwa maji na tikisa wakati wote wa kuchanganya.

- Kama sumuchangwa ni aina ya poda tengeneza uji uji kwanza kwa kukoroga kwenye maji. Weka uji uji huo kwenye bomba kupitia kwenye kichuju.

- Kama sumuchangwa ya mmumunyo au aina ingine weka pole pole kwenye tanki huku ukitisa.
- Baada ya hayo weka Lumax®.
- Weka Gramoxone® au Touchdown Forte® na kilowanisho mwisho kama kinahitajika. Malizia kujazia bomba kwa maji huku ukitikisa.
- Dawa iliyochanganywa haina budi kutumika siku hiyo hiyo. Kama unyunyuzaji utahairishwa kwa sababu zozote zile Lumax® yaweza kugandamana chini ya tanki.

Kusafisha bomba baada ya kunyunyiza

- Ili kuzuia uharibifu kwa mazao mengine tofauti na miwa na mahindi osha vifaa vyote vya kunyunyizia dawa mara tu baada ya kumaliza kazi.
- Pitisha maji safi kwenye tanki, mipira na vipenyo. Tumia maji yenye msukumo mkubwa kuosha ndani ya tanki la bomba.
 - Jaza 1/2 ya tanki la bomba na maji safi. Anza kusafisha ndani ya bomba na kuzungusha maji kwa muda usiopungua dakika 15. Osha mpira, vipenyo na sehemu zote za bomba kwa angalau dakika 1.
 - Nyunyiza maji yaliyo safishia bomba shambani. Rudia sehemu 2-3. Tengana vipenyo, vichujio na sehemu zote za bomba na suuza na maji safi.

Kuhifadhi dawa: Dawa ihifadhiwe kwenye viwekeo vyake asilia, mahali pakavu na penye kivuli na hewa ya kutosha. Usiweke sehemu ya joto lililozidi 35°C. Weka mbali na vyakula, vinywaji au chakula cha mifugo. Hifadhi pasipoweza kufikiwa na watoto na wanyama.

Tahadhari: HIFADHI DAWA MBALI NA WATOTO na watu wasiohusika nayo na mifugo.

Usalama kwa wanaonyunyiza: Usijimwagie dawa. Vaa mavazi ya kinga wakati wa kuchanganya dawa. Usivute sigara, wala kunywa au kula chochote wakati unapofanya kazi na dawa. Nawa vizuri ndipo ufanye hivyo.

Baada ya kazi fua nguo zote ulizokuwa umevaa wakati wa kazi na oga mwili kwa maji na sabuni. Uchanganyaji wa dawa kwenye bomba la kunyunyizia ufanyike mahali penye hewa nyingi.

Hifadhi ya mazingira: Hakikisha dawa haipeperushwi na kufikia mazao mengine. Usinyunyize, kumwaga au kuosha vyombo karibu au kwa miti au mimea mingine. Usimwage dawa kwenye mifereji ya umwagiliaji au mtoni. Usilishe mifugo kwenye shamba lililonyunyizwa dawa.

Kuvuja na kumwagika dawa: Ondoa udongo uliovujiwa au kumwagikiwa na dawa na utupe mahali salama mbali na vyanzo vya maji. Kusanya dawa iliyomwagika na utupilie mahali pasipo na mazao na mbali na maji au mto. Suuza viwekeo na uweke maji yake kwenye tanki la bomba. Viponde, na uvitupilie mahali salama palipoidhinishwa.

HUDUMA YA KWANZA: Ukijisihia sumu imekuingia, acha kazi mara moja na fuata huduma ya kwanza. Endapo dawa imekumwangukia, vaa nguo zilizochofuka, nawa haraka kwa maji mengi na sabuni sehemu zote za mwili zilizopata dawa. Kama dawa imeingia kwenye macho, yasafishe kwa maji safi kwa dakika 15. Kama umevuta utusitusi wa dawa, nenda kwenye sehemu yenye hewa nyingi. Endapo dawa imemezwa, mgonjwa apewe mkaa wa hospitali uliochanganywa na maji mengi. Daktari aitwe mara moja kama kiasi kikubwa cha dawa kimemezwa. Mgonjwa aliyetupa fahamu asilishwe au kunywenshwa kitu chochote kwa njia ya mdomo, na wala asitapishwe. PELEKA MJERUHI KWA DAKTARI.

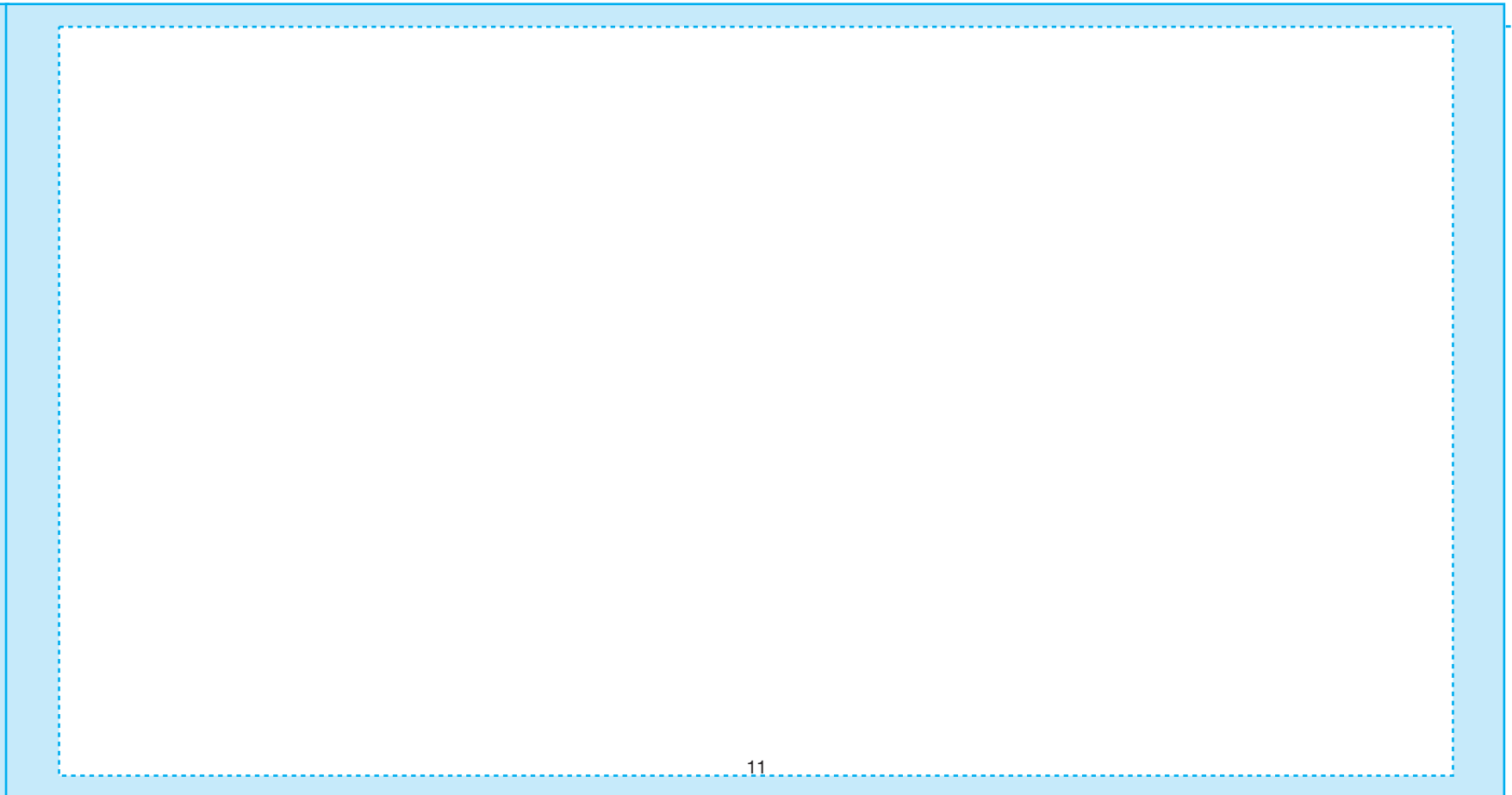
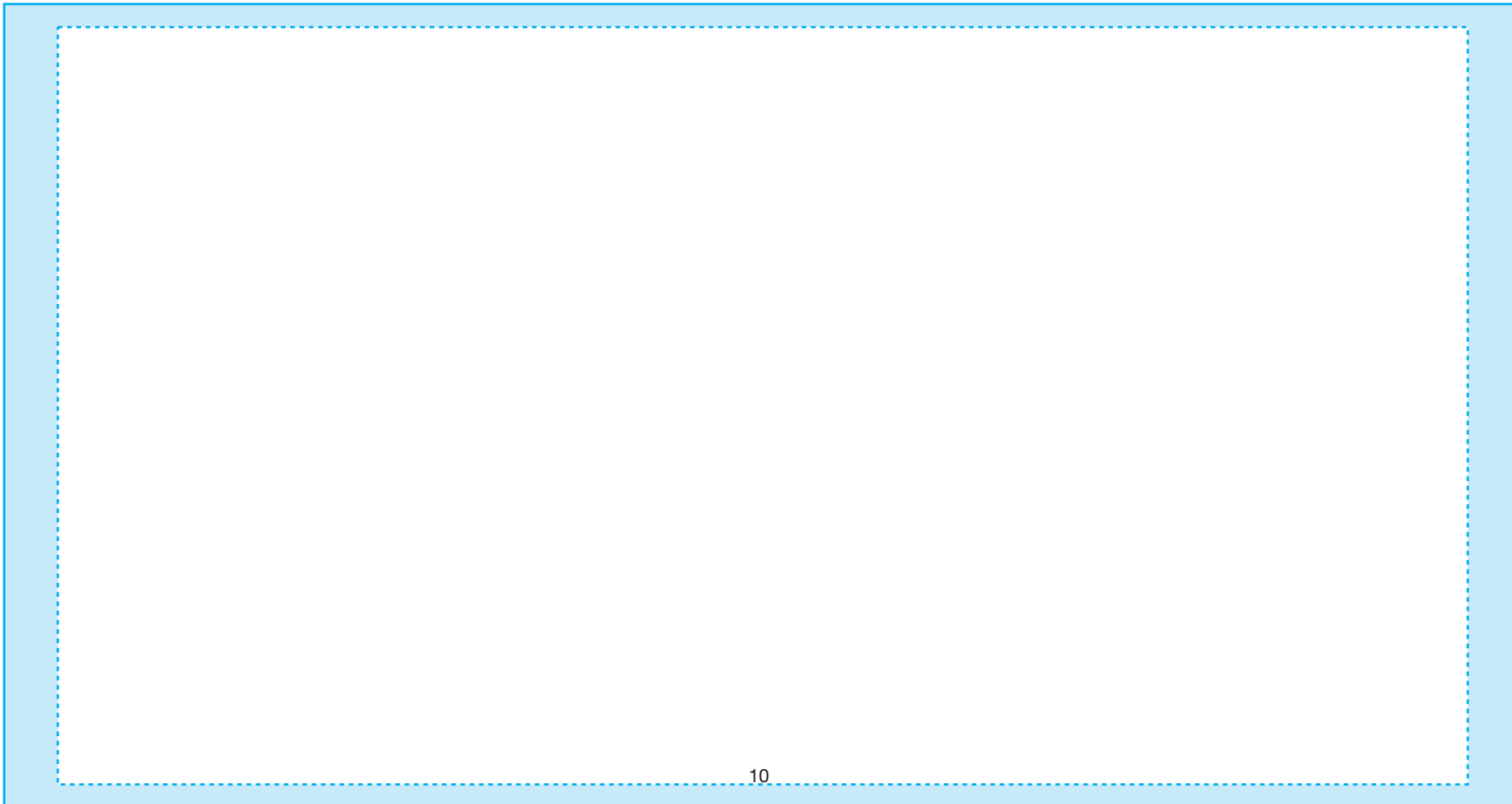
Makataa: Hakuna kinga maalum. Matibabu yafanyike kulingana na dalili za maumivu.

Kukiwa na jambo la dharura piga simu isiotozwa Nambari:

0800 720021 / 0800 730030 (24 hr).

ILANI KWA MTUMIAJI: Dawa hii ni sharti itumiwe kulingana na maagizo yaliyo kwenye kibandiko. Ni hatia chini ya sheria za madawa ya kuangamiza wadudu waharibifu kutumia au kuhifadhi dawa hii katika hali isiyo salama.

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



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