

# Aflasafe™



## Aflatoxin na-egbu!

Aflasafe na-echekwa  
ọka gi na ahukere  
site na nsi di egwu





## Kedu ihe bụ Aflasafe, na ihe kpatara anyi kwesiili iji ya?

Ihe a na-emepụta nke na-eme ka aflatoxin na-akụ na ọka na ala. O bụ banyere ahụike na akụ na ụba gi: Aflasafe na-echebe gi, ezinụlo gi na obodo site na nri aflatoxinsafe: Aflasafe pütakwara uru ndị ọzọ mgbe mkpuru gi mepütara nri-ụlo ọru dika nke a na acho acho.

Aflasafe bụ tumadi sorghum nke a ńara n'okụ (99.7% nke ngwaahịa ahụ), kpuchi ya na udi ato atozigenic ano (nke ahu bu, na-enweghi nsi na-emepụta) nke *Aspergillus flavus* nke mba

Nigeria. Iji zere ọgba aghara na sorghum mgbe nile, Aflasafe na-acha anụnụ anụnụ na-eji ụcha nri.

E mepütara Aflasafe site na International Institute of Tropical Agriculture (IITA) na Mmekorita na Ngalaba Ngalaba Ugbo – United States Department of Agriculture–Research Agricultural Research Service, Mahadum nke Bonn (Germany), na Mahadum nke Ibadan (University of Ibadan).

## Kedu ihe bu aflatoxin?

O bu nsi sitere na ụdị *Aspergillus* fungus, nke bụ *Aspergillus flavus*. Nke a na-achọta n'ime ala na osisiị nwụrụ anwụ ma ọ bụ ndị a emebei emebi. O na-emetụta mkpuru ihe ubi sitere na okooko ruo mgbe ntoru okè. Oka na groundnut nwere ike emetutayo. I pughị ijụ, ijụ ísi ma ọ bụ idetu aflatoxin. Ma ndị mmadụ ma ụmụ

anụmanụ na-echebara aflatoxin anya, otu o di ntakiri. Ma dika e kwuru n'elu, odidi na-enyekwa *Aspergillus flavus* nke ahu abughi nsi. Mgbe -eji Aflasafe me ihe n'uzo ziri ezi, ụdi enyina enyi ndị a na-asopụ ndị na-eme nsí. Nke a bu out Aflasafe si aru oru. Obu ihe odidi na-aru oru na odidi ichebe nri anyi.

Aflasafe dị mfe iji eme olu,, dị ka ị ga - ahụ site na ntụziaka ndị na - agbaso:

Kpuchi foto – Maachi 2017: *Dan' Asabe ebe o na-agbasa Aflasafe na oka na obodo Dorawan Salau, Garum Malam LGA, na ala Kano, na-ugwu Nigeria.*  
Foto – IITA, keisi: AgResults; ntinye: A Ortega-Beltrán



## Ntuziaka:

1. Jiri naanị dị ka a gwara gi.
  2. Soro usoro nke akwadoro na nmeme nke ihe ubi gi.
  3. Tupu ị tanye Aflasafe, i kwesiri I kpochapu ahiihia ma mee riji na-ubi gi, fatalaiza gba-kwunyere, na omenala ndị ọzọ niile a na-emē iji zere ịbanye na ebe igbasa aflasafe na mgbe etinyechara ya.
  4. **EMENA IHE OBULA GA ELI AFLASAFE.** Gbaa mbọ hụ na Afasafe nọ n'elu ala.
  5. Tuo mpaghara nke ubi ebe a ga-etinye aflasafe.
  6. Maka **ọka**, gbasa Afasafe n'aka mgbe mkpuru osisi ahụ dị elu, mgbe izu 2 ruo 3 tupu oge okooko, na ọnuego 10 kilo site n'ime etu kwa hectare.
  7. Maka **groundnut**, gbasa Afasafe n'ubochi 30-35 mgbe akuku, ya bu izu 2 ruo 3 tupu okooko, site na mgba-kwasa n'akukụ ndị ahịri n'elu ala n'elu ọnuego 10 kilo kwa hectare.
  8. Hu na Afasafe kesara onu n'ubi mgbe itinye ya.
  9. Ka o kwere mee, tanye Aflasafe mgbe mmiri ozuzu gasirị, ma ọ bụ mgbe ala dị mmiri. Mgbe mmiri dị na ala, atozigenik stirani na-eto ngwa na sorghum nke na-aru dika ma ndi na-ebu na ahi ha.
  10. Echegbula onwe gi ma ọ bụrụ na ndanda na-ebu ọka Afasafe n'ime akwu ha. Ha na-eweghachi ọka n'ala ala mgbe ụboghị 1 ruo 3 gasirị. Nke a anaghị emebe mma Afasafe ma o bu ire ya.
  11. Afasafe adighị emerụ ọkụko, anụ ufe, nnunu ma ọ bụ anụ ọhịa, nke nwere ike ibudata ọka Afasafe mgbe ụfodụ. Nke a emetụtakwa irè nke Afasafe.
  12. Na ụboghị ise ruo asaa mgbe itinyechara Afasafe, gaa n'ubi leruoanya otu Afasafe si acha . A ghaghị ijụ na mkpuru osisi na-acha ndu ndu na ụfodụ ma ọ bụ ihe niile ma ọ bụrụ na ala mmiri dị mma. O b ur u na o nweghị ihe ut o, laghachighachi n'ubi ah u n'af o 3 ruo 5 ma ch op uta oz o.
  13. Soro usoro owuwe ihe ubi di mma na.
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# Eme na Emela

## Ihe ize ndu na mkpachapu anya

- Adighi agwakota ya na fatljaiza, obugbugu ụmụ ahụhụ, ma ọbu fungisaidi.
- Na-etinye Aflasafe nani mgbe ọ ga-ekwe omume ka i na-agaghari na mpaghara ndị nwere ike ịnata nlezanya (dika, ebe obibi, mmiri mmiri, ebe a maara maka ụdi
- Anayi eri, anu ma ọ bụ se anwụrụ ọkụ mgbe i na-ejikwa Aflasafe.
- Jiri ncha na mmiri saa aka gi nke oma mgbe I fi Aflasafe ma tupu I rie nri, nuo onunu ma o bu see anwuru.

## Idoteihe na mkpofu

EJILA IDOTEIHE NA MKPOFU IHE MEBIE MMIRI, NRI MA OBU NRI UMU-AN UMANU

- **Idoteihe:** Chekwaa Aflasafe na ebe nkporoakpo. Emela ka ikpoo oke iru mmiri kariri 80% tupu o jiri ya. Aflasafe nwere ihe ndị dị ndu nke ga-adị ndu iji ruo ọrụ. Echekwala n'okpuru nnukwu ọnodụ. Emela ka okpomokụ ya dị elu karịa 50°C.
- **Mkpofu:** Jiri ihe nile di n'ime akpa ya, tanye dika ntuziaka. Ma o buru na o ka faduru, nnye ndi waste disposal facility ma o bu pesticide disposal programme Aflasafe foduru (o bun di ochichi local governments ma o bu state government n'achi mmemme ahu).
- **Nwee ihe mgbochi:** Ejila ma ọ bụ dojuputa akpa. Inye akpa maka imeghari ma ọ bürü na ọ dị ma ọ bụ tufuo akpa efu n'ime ebe ndagwurugwu ocha ma ọ bụ site na ịkycha ọkụ.

## HU NA I GURU MA GBASOO OZI NIILE NANTUZIAKA NA MKPO

**OKWA DI MKPA:** Ka Aflasafe ruo oru, I ghagini igbaso ntuziaka niile, karisia mgbe i na-etinye Aflasafe: **ezi ojiji na oge itinye ya kwesiri ibu mkpa.**

Ji nyere Aflasafe iwu ka i na-emeso ihe ọkụkụ gi, ma ọ bụ izuta Aflasafe - emeso ihe ọkụkụ, kottedʒ Harvestfield Industries Ltd:

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