

National mycotoxin regulations

According to the Foodstuffs, Cosmetics and Disinfectants Act (Act 54 of 1972) and regulations published in Government Notice No. R. 1145, dated 8 October 2004, all foodstuffs, ready for human consumption, may not contain more than 10 µg/kg of aflatoxin, of which aflatoxin B₁ may not exceed 5 µg/kg.

Amendments to Government Notice No. R. 1145, dated 8 October 2004, published in Government Notice No. 987 of 05 September 2016, specify that

- Cereal grains (wheat, maize and barley) intended for further processing, may not contain more than 2 000 µg/kg of Deoxynivalenol.
- Flour, meal, semolina and flakes derived from wheat, maize or barley, ready for human consumption, may not contain more than 1 000 µg/kg of Deoxynivalenol.
- Raw maize grain, intended for further processing, may not contain more than 4 000 µg/kg of Fumonisin (B₁ + B₂), the whole commodity.
- Maize flour and maize meal, ready for human consumption, may not contain more than 2 000 µg/kg of Fumonisin (B₁ + B₂), the whole commodity.

Further processing means any other treatment or processing method that has been proven to reduce levels of fungus produced toxins in foodstuffs intended for human consumption.

According to the Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act (Act 36 of 1947) as well as amendments published in Government Notices No. R. 70 of 12 February 2010 and R. 789 of 10 September 2010, the maximum allowable levels of mycotoxins in animal feeds, are as follows:

| Substance, Products | Farm Feeds | MAXIMUM CONTENT IN mg/kg (ppm) relative to a farm feed with a moisture content of 120 g/kg | MAXIMUM CONTENT IN µg/kg (ppb) relative to a farm feed with a moisture content of 120 g/kg |
|--------------------------------|---|--|--|
| Aflatoxin B₁ | Feed ingredients with the exception of: | 0.05 | 50 |
| | groundnut, copra, palm-kernel cotton seed, maize and products derived from the processing thereof | 0.02 | 20 |
| | Complete farm feeds for cattle, sheep and goats with the exception of: | 0.05 | 50 |
| | dairy cattle | 0.005 | 5 |
| | calves and lambs | 0.01 | 10 |
| | complete feeds for pigs and poultry (except young animals) | 0.02 | 20 |
| | other complete farm feeds (including pets) | 0.01 | 10 |
| | maize products intended for feedlots | 0.3 | 300 |
| | supplement/concentrates for cattle, sheep and goats (except for dairy animals, calves and lambs) | 0.05 | 50 |
| Deoxynivalenol (DON) | Feeding stuffs on a full ration basis for: | | |
| | Pigs | 1 | 1 000 |
| | cattle | 5 | 5 000 |
| | calves up to 4 months | 2 | 2 000 |
| | dairy cattle | 3 | 3 000 |
| | poultry | 4 | 4 000 |
| | pets | 1 | 1 000 |
| Fumonisin B₁ | Horses and pets | 5 | 5 000 |
| | Pigs | 10 | 10 000 |
| | Beef and poultry | 50 | 50 000 |
| | Fish | 10 | 10 000 |
| Ochratoxin A | Feeding stuffs on full ration basis for: | | |
| | Pigs | 0.05 | 50 |
| | poultry | 0.2 | 200 |
| Zearalenone | Feeding stuffs on full ration basis for: | | |
| | sows and pigs | 5 | 5 000 |
| | piglets | 3 | 3 000 |
| | calves and dairy cattle | 0.5 | 500 |