

DRAFT LIST OF POTENTIALLY HAZARDOUS CONTAMINANTS IN ANIMAL FEED AND FEED INGREDIENTS

1. BIOLOGICAL CONTAMINANTS

A. Transmissible Spongiform Encephalopathies

- i. Bovine spongiform encephalopathy (BSE)**
- ii. Chronic wasting disease (CWD)**

B. Microbiological Contaminants

i. Bacteria

- 1. Bacillus spp.**
- 2. Clostridium spp.**
- 3. Escherichia coli**
- 4. Mycobacterium spp.**
- 5. Pseudomonas spp.**
- 6. Salmonella enterica (various serotypes)**
- 7. Staphylococcus spp.**

2. CHEMICAL CONTAMINANTS

A. Pesticides/Pesticide residues

- i. Aldrin**
- ii. Benzene hexachloride**
- iii. Chlordane**
- iv. Chlorpyrifos**
- v. Chlorpyrifos-methyl**
- vi. Diazinon**
- vii. Dieldrin**
- viii. DDT+TDE+DDE**
- ix. Dicofol**
- x. Endosulfan**
- xi. Endrin**
- xii. Ethion**
- xiii. HCH alpha**
- xiv. HCH beta**
- xv. HCH gamma (lindane)**
- xvi. Heptachlor**
- xvii. Heptachlor + heptachlor epoxide**
- xviii. Hexachlorobenzene**
- xix. Malathion**
- xx. Methoxychlor**
- xxi. Mirex**
- xxii. Parathion**
- xxiii. Toxaphene (camphechlor)**
- xxiv. Tribuphos**

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B. Mycotoxins

- i. Aflatoxins ($B_1 + B_2 + G_1 + G_2$)
- ii. Fumonisin ($B_1 + B_1 + B_3$)
- iii. Deoxynivalenol (DON or vomitoxin)
- iv. Ochratoxin
- v. Zearaloxon

C. Heavy Metals/Radionuclides

- i. Arsenic
- ii. Cadmium
- iii. Chromium
- iv. Lead
- v. Americium 241
- vi. Cesium 134
- vii. Iodine 131
- viii. Plutonium 238
- ix. Ruthenium 103
- x. Ruthenium 106
- xi. Strontium 90

D. Other Chemicals

- i. Ethoxyquin
- ii. Dioxins
- iii. Mercury
- iv. Perchlorate
- v. Polychlorinated biphenyls (PCBs)
- vi. Polyethylene glycol
- vii. Selenium

3. PHYSICAL CONTAMINANTS

- A. Plastic
- B. Glass
- C. Metal
- D. Other

- i. Bones (vermin, etc.)
- ii. Radiation from implanted devices in animals (see Radionuclides)