

# Chemical, Metals, Natural Toxins & Pesticides Guidance Documents & Regulations

Guidance documents contain nonbinding recommendations.

For additional information, see the [Chemicals, Metals & Pesticides in Food \(/food/chemical-contaminants-pesticides\)](#) section.

## Chemical

- **Acrylamide:** [Guidance for Industry: Acrylamide in Foods \(/food/guidance-documents-regulatory-information-topic/guidance-industry-acrylamide-foods\)](#) (March 2016)
- **Dioxins & PCBs:** [Guidance for Industry: Possible Dioxin/PCB Contamination of Drug and Biological Products \(PDF - 7.7KB\) \(/media/71015/download\)](#) (August 1999)
- **Melamine:** ["Dear Colleague" Letter to the United States Food Manufacturing Industry, Regarding Melamine \(https://wayback.archive-it.org/7993/20170404222927/https://www.fda.gov/Food/FoodborneIllnessContaminants/ChemicalContaminants/ucm164514.htm\) \(http://www.fda.gov/about-fda/website-policies/website-disclaimer\)](#) (October 10, 2008)
- **Radionuclides**
  - [Compliance Policy Guide: Guidance Levels for Radionuclides in Domestic and Imported Foods \(/regulatory-information/search-fda-guidance-documents/cpg-sec-555880-guidance-levels-radionuclides-domestic-and-imported-foods\)](#) (July 29, 2004)
  - [Supporting Document for Guidance Levels for Radionuclides in Domestic and Imported Foods \(/food/process-contaminants-food/supporting-document-guidance-levels-radionuclides-domestic-and-imported-foods\)](#) (July 29, 2004)
- [Action Levels for Poisonous or Deleterious Substances in Human Food and Animal Feed \(/food/guidance-documents-regulatory-information-topic/guidance-industry-action-levels-poisonous-or-deleterious-substances-human-food-and-animal-feed\)](#) (2000)

## Metals

- **Arsenic**
  - [Guidance for Industry: Inorganic Arsenic in Apple Juice - Action Level \(/food/guidance-documents-regulatory-information-topic/draft-guidance-industry-arsenic-apple-juice-action-level\)](#) (June 2023)
  - [Guidance for Industry: Inorganic Arsenic in Rice Cereals for Infants: Action Level \(/food/guidance-documents-regulatory-information-topic/draft-guidance-industry-inorganic-arsenic-rice-cereals-infants-action-level\)](#) (August 2020)
  - [Small Entity Compliance Guide: Bottled Water and Arsenic \(/food/guidance-documents-regulatory-information-topic/guidance-industry-bottled-water-and-arsenic-small-entity-compliance-guide\)](#) (April 2009)
- **Lead**
  - [Draft Guidance for Industry: Action Levels for Lead in Food Intended for Babies and Young Children \(/regulatory-information/search-fda-guidance-documents/draft-guidance-industry-action-levels-lead-food-intended-babies-and-young-children\)](#) (January 2023)
  - [Draft Guidance for Industry: Action Levels for Lead in Juice \(/regulatory-information/search-fda-guidance-documents/draft-guidance-industry-action-levels-lead-juice\)](#) (April 2022)
    - [Draft Supporting Document for Establishing FDA's Action Levels for Lead in Juice \(/food/chemical-metals-natural-toxins-pesticides-guidance-documents-regulations/draft-supporting-document-establishing-fdas-action-levels-lead-juice\)](#) (April 2022)
  - [Guidance for Industry: The Safety of Imported Traditional Pottery Intended for Use with Food and the Use of the Term "Lead Free" in the Labeling of Pottery; and Proper Identification of Ornamental and Decorative Ceramicware \(/food/guidance-documents-regulatory-information-topic/guidance-industry-safety-imported-traditional-pottery-intended-use-food-and-use-term-lead-free\)](#) (November 2010)

- **WITHDRAWN - Chemical Contaminants (Lead): 1991 Letter to Bureau of Alcohol, Tobacco and Firearms Regarding Lead in Wine (March 2007)**  
See [Letter Concerning the Withdrawal of "1991 Letter to Bureau of Alcohol, Tobacco and Firearms Regarding Lead in Wine" \(/food/guidance-documents-regulatory-information-topic/letter-concerning-withdrawal-guidance-industry-and-fda-1991-letter-bureau-alcohol-tobacco-and\) from January 2017](#)
- **Lead in Candy Likely To Be Consumed Frequently by Small Children: Recommended Maximum Level and Enforcement Policy (/food/guidance-documents-regulatory-information-topic/guidance-industry-lead-candy-likely-be-consumed-frequently-small-children)** (November 2006)
  - **Supporting Document for Recommended Maximum Level for Lead in Candy Likely To Be Consumed Frequently by Small Children (/food/metals/supporting-document-recommended-maximum-level-lead-candy-likely-be-consumed-frequently-small)** (November 2006)
- **Letter to Manufacturers, Importers, and Distributors of Imported Candy and Candy Wrappers (/food/guidance-documents-regulatory-information-topic/guidance-industry-letter-manufacturers-importers-and-distributors-imported-candy-and-candy-wrappers)** (June 13, 1995)

## Natural Toxins

- **Compliance Policy Guide Sec. 550.050 Canned Ackee, Frozen Ackee, and Other Ackee Products - Hypoglycin A Toxin (PDF - 30KB (/media/88521/download))** (April 14, 2014)
- **Guidance for Industry and FDA: Advisory Levels for Deoxynivalenol (DON) in Finished Wheat Products for Human Consumption and Grains and Grain By-Products used for Animal Feed (/food/guidance-documents-regulatory-information-topic/guidance-industry-and-fda-advisory-levels-deoxynivalenol-don-finished-wheat-products-human)** (June 2010)
- **Guidance for Industry: Fumonisin Levels in Human Foods and Animal Feeds (/food/guidance-documents-regulatory-information-topic/guidance-industry-fumonisin-levels-human-foods-and-animal-feeds)** (November 9, 2001)
- **Compliance Policy Guide Sec. 555.400 Foods - Adulteration with Aflatoxin (/inspections-compliance-enforcement-and-criminal-investigations/compliance-policy-guides/cpg-sec-555400-foods-adulteration-aflatoxin)**
- **Compliance Policy Guide Sec. 570.200 Brazil Nuts - Adulteration with Aflatoxin (/media/72053/download)**
- **Compliance Policy Guide Sec. 570.500 Pistachio Nuts - Aflatoxin Adulteration (/media/72084/download)**
- **Compliance Policy Guide Sec. 570.375 Aflatoxin in Peanuts and Peanut Products (/media/72073/download)**
- **Compliance Policy Guide for FDA Staff: Sec. 550.050 Canned Ackee, Frozen Ackee, and Other Ackee Products - Hypoglycin A Toxin (/media/84578/download)**
- **Compliance Policy Guidance for FDA Staff: Apple Juice, Apple Juice Concentrates, and Apple Juice Products - Adulteration with Patulin (/inspections-compliance-enforcement-and-criminal-investigations/compliance-policy-guides/cpg-sec510150-apple-juice-apple-juice-concentrates-and-apple-juice-products-adulteration-patulin)**

## Pesticides

- **Pesticide Chemicals: Channels of Trade Policy for Commodities With Residues of Pesticide Chemicals, for Which Tolerances Have Been Revoked, Suspended, or Modified by the Environmental Protection Agency Pursuant to Dietary Risk Considerations (/food/guidance-documents-regulatory-information-topic/guidance-industry-channels-trade-policy-commodities-residues-pesticide-chemicals)** (May 2005)
- **Methyl Parathion: Channels of Trade Policy for Commodities with Methyl Parathion Residues (/food/guidance-documents-regulatory-information-topic/guidance-industry-channels-trade-policy-commodities-methyl-parathion-residues)** (December 2000)
- **Vinclozolin: Channels of Trade Policy for Commodities with Vinclozolin Residues (/food/guidance-documents-regulatory-information-topic/guidance-industry-channels-trade-policy-commodities-vinclozolin-residues)** (June 12, 2002)

See **[Bottled Water & Carbonated Soft Drinks Guidance Documents & Regulatory Information \(/bottled-water-carbonated-soft-drinks\)](#)** for additional guidance and regulations.