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Food Contact Material and Food Safety

Food Contact Material (FCM)



Definition

- •Intended to come into contact with food or already in contact with food
- Includes both food packaging and other materials or components, e.g. parts of food processing equipment
- •Coffee makers, production machines, containers used for transport in the food industry

Safety of Food Contact Materials



PFAS & mineral oil in hamburger paper



Plasticizer in PVC cling film



BPA in PC bottles



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U.S. Food Contact Material

Regulatory System

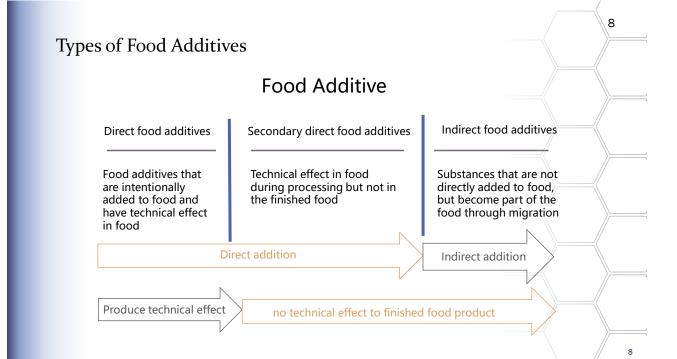
2022-06-16 ©Global Product Compliance – GPC

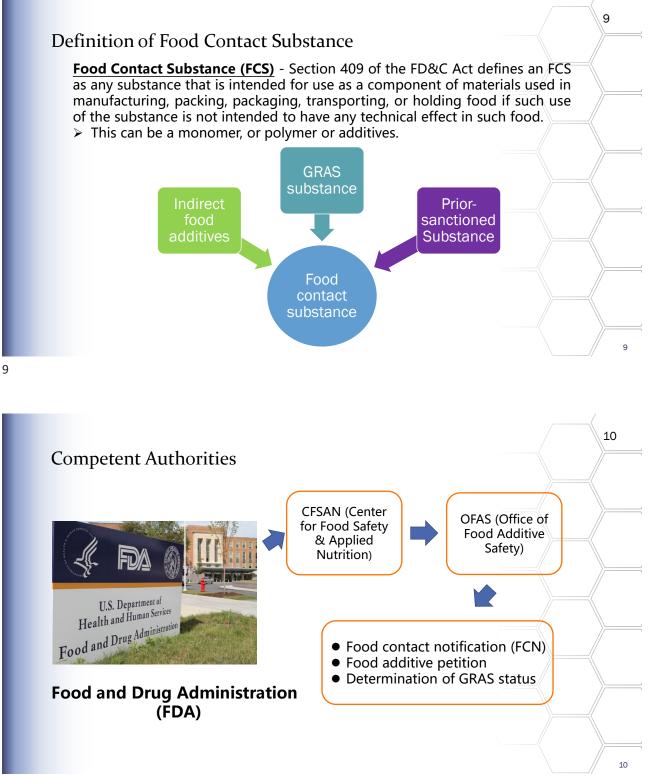
Definition of Food Additives

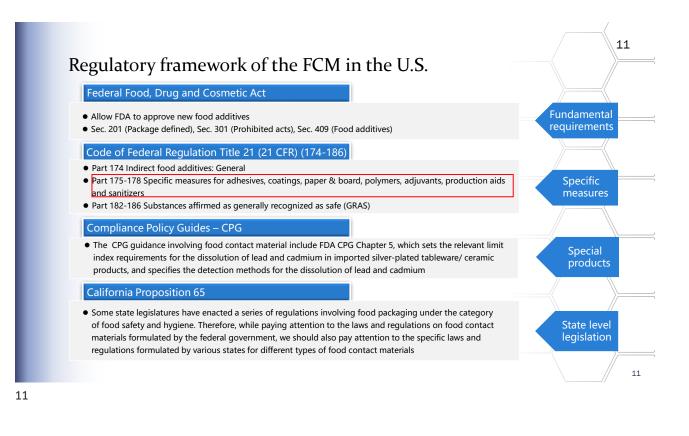
Section 201 (s) of the FD&C:

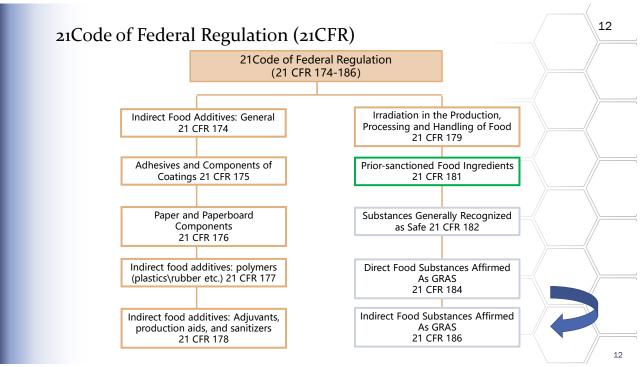
"food additive" means <u>any substance</u> the intended use of which results or may reasonably be expected to result, <u>directly or indirectly</u>, in its becoming a component or otherwise affecting the characteristics of any food (including any substance intended for use in producing, manufacturing, packing, processing, preparing, treating, packaging, transporting, or holding food; and including any source of radiation intended for any such use)

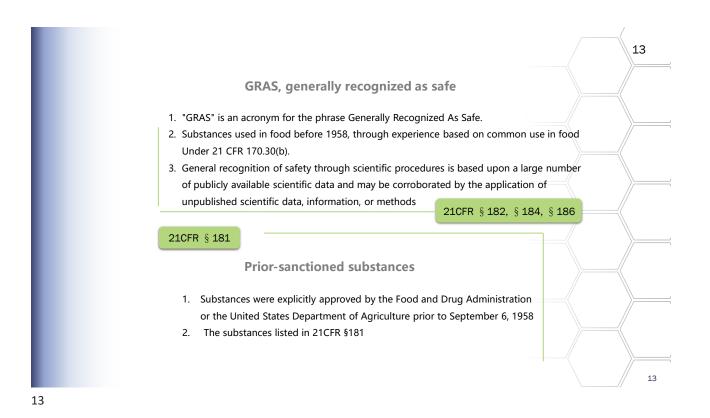








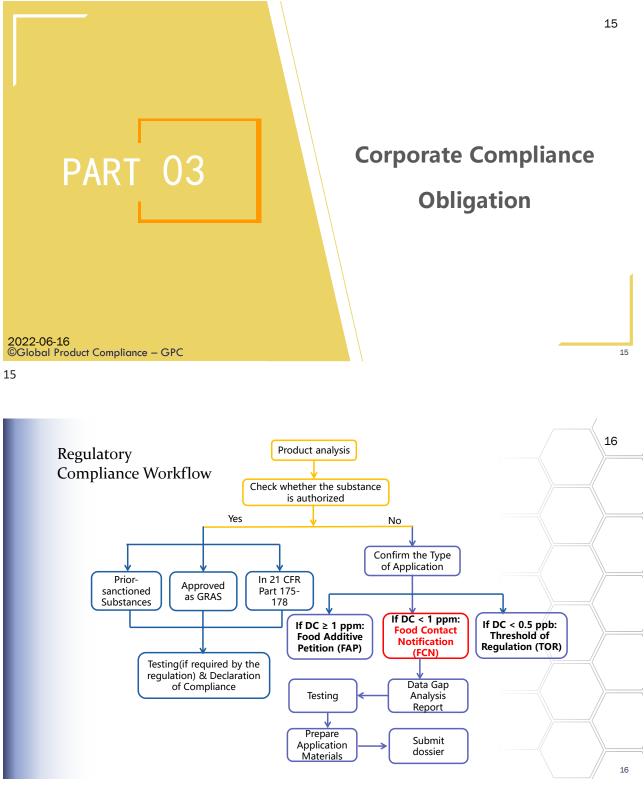


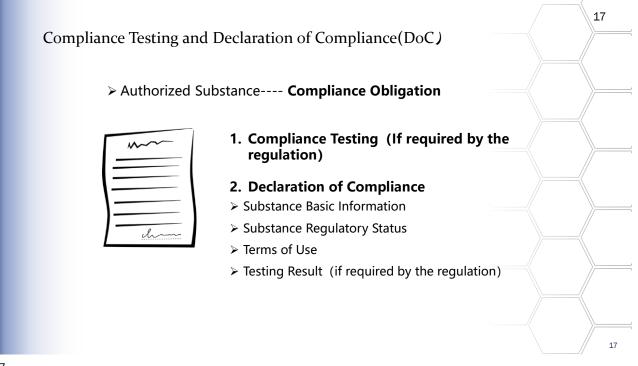




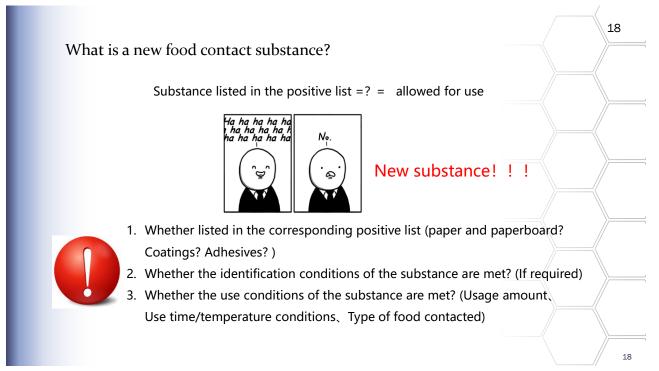
1. Any use of food contact substance must be permitted by FDA

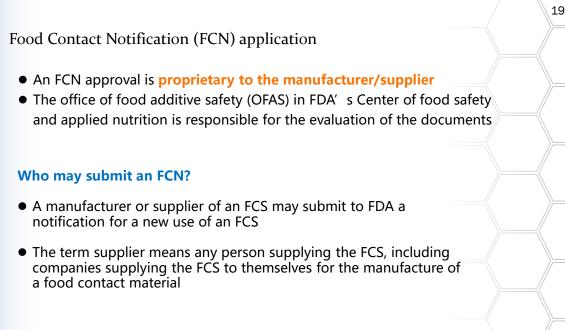
- The production of food contact substance should comply with Good Manufacturing Practice (GMP)
- 3. Any substance used as a component of articles that contact food shall be of a purity suitable for its intended use.
- 4. The use level should not exceed the quantity reasonably required to accomplish the intended physical or technical effect in the food contact articles.
- 5. Food contact substance and material should subject to any prescribed limitation in 21CFR.

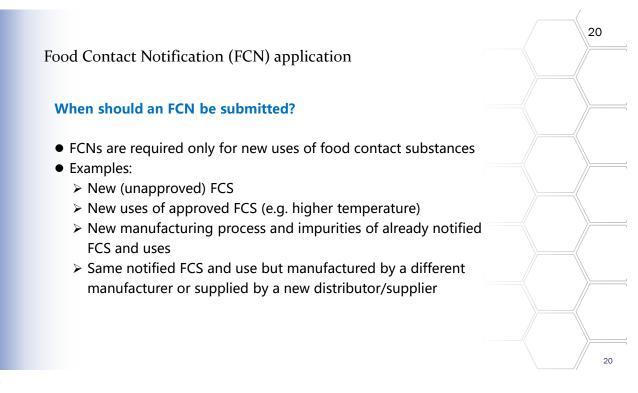


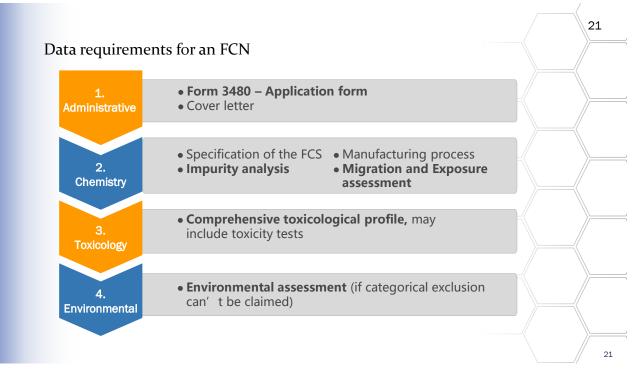












Toxicological data requirements

Category	Exposure level (DC)	Toxicological data requirements	
Tier 1	≤ 0.5 ppb	 No safety studies are recommended Lifetime cancer risk for carcinogenic components should be assessed 	
Tier 2	0.5 ppb – 50 ppb	 At least 2 genetic toxicity tests Lifetime cancer risk for carcinogenic components should be assessed 	
Tier 3	50 ppb – 1 ppm	 At least 2 genetic toxicity tests In vivo chromosomal damage test Rodent subchronic toxicity study 	
Tier 4	≥ 1 ppm	• Food additive petition is recommended	

