



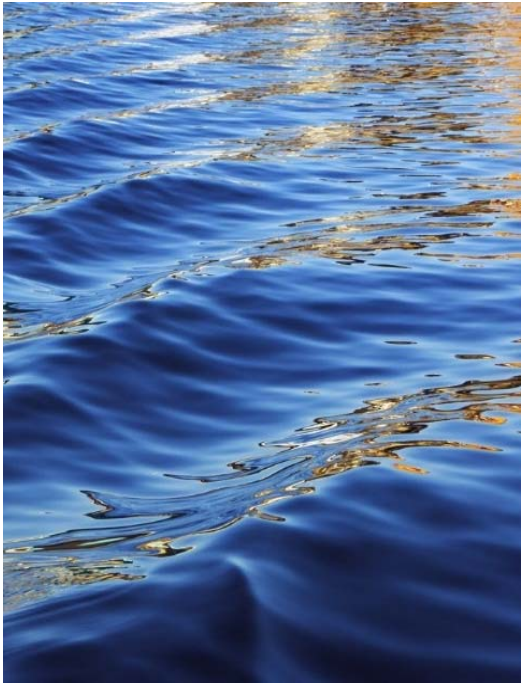
国家食品安全风险评估中心
China National Center for Food Safety Risk Assessment



Progress on Food Packaging Material Regulations in China

Lei ZHU

China National Center for Food Safety Risk Assessment





国家食品安全风险评估中心
China National Center for Food Safety Risk Assessment

Content

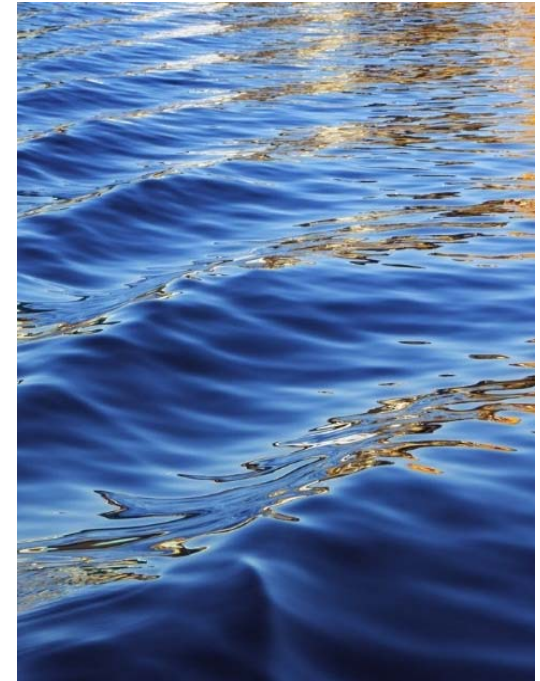
Regulations of food packaging materials

Food packaging material standard framework

Progress on food packaging standard



Regulations for Food Packaging Materials in China



Food Safety Law

- **Food packaging materials and containers**

Articles made of paper, bamboo, wood, metal, porcelain, ceramics, plastics, rubbers, natural fibers, synthetic fibers, glass and etc. that are used for packaging or containing food or food additives, as well as the coatings in direct contact with food or food additives.

- **Food related products**

Packaging materials, containers, detergents and disinfectors used for food, as well as instruments and equipment used in food manufacturing and trade.

Major Regulations on Packaging Materials in Food Safety Law

Article 20 Food safety standard should include the following items

- The limits for pathogens, pesticide residues, veterinary drug residues, heavy metals, contaminants and other health endangering matters in food and **food related products**

Article 36

- Food manufacturers should examine the manufacturing licenses of the suppliers and certificates for products when purchasing raw food materials, food additives and **food related products**. Inspections should be applied in accordance with food safety standards to the raw food materials when certificates are not provided. The purchase or the usage of raw food materials, food additives and food related products that are not meeting food safety standards are forbidden.

Major Regulations on Packaging Materials in Food Safety Law

Article 38

- The manufacturers of food products, food additives and **food related products** should inspect their own products in accordance with food safety standards. The release for sale should be approved when inspections are passed.

Article 44

- Safety assessment documents of certain materials should be provided to the health administrative agency of the State Council when any organization or individual apply for such materials to be new food raw materials for food production, new food additives or new **food related products**. The inspection on the safety assessment documents should be organized by the health administrative agency of the State Council within the 60-day period once the applications are received. For the materials qualified for food safety requirements, permissions should be granted and announced by law. For the materials not qualified for food safety requirements, permissions should not be granted and a written notice should be provided with reasoning.

Major Regulations on Packaging Materials in Food Safety Law

Article 62

- The imported food products, food additives and **food related products** should meet national food safety standards.

Article 63

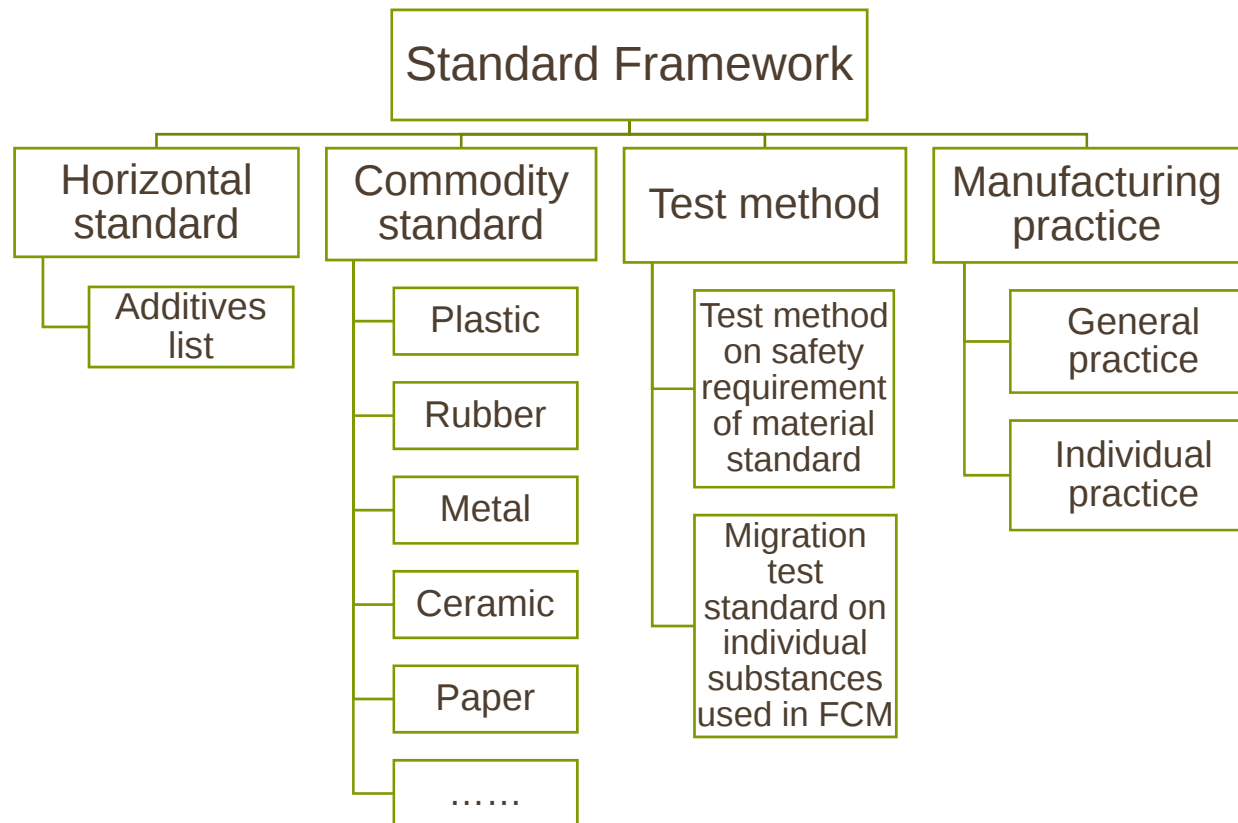
- The importers should provide safety assessment materials to the health administrative agency of the State Council when importing food products with no national food safety standards to be in accordance with, or importing new food additives or **food related materials** for the first time. The health administrative agency of the State Council should come to a decision of whether permission will be granted according to Article 44 of this law, and formulate corresponding national food safety standards.



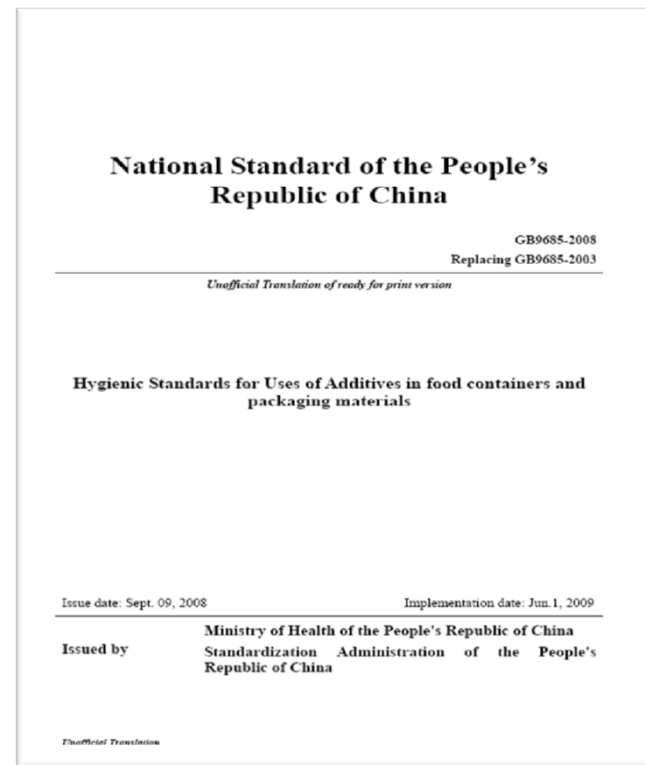
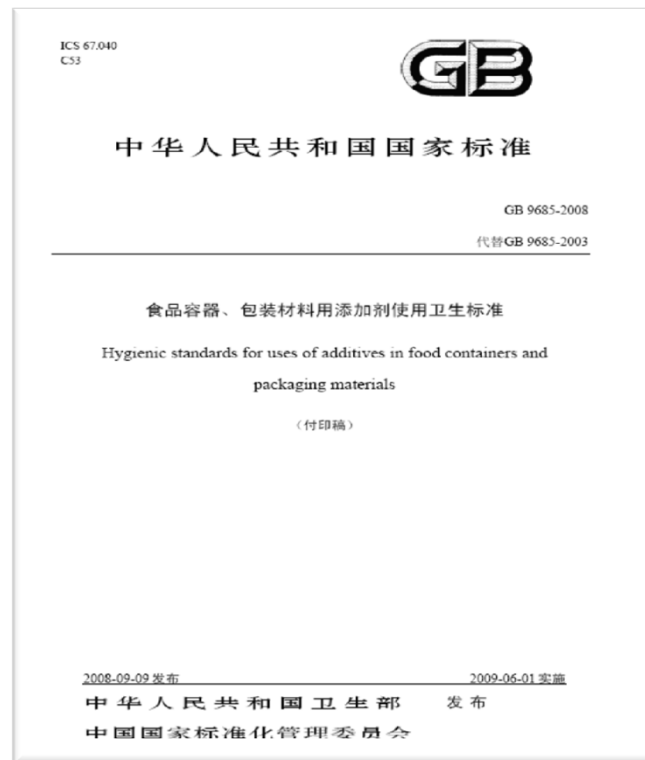
Food Packaging Material Safety Standard Framework in China



Current Framework of Food Packaging Material Standard



GB9685-2008 *Hygienic standards for uses of additives in food containers and packaging materials*



Layout of GB 9685

- 1.Scope
- 2.Terminologies and Definitions
- 3.Principles for uses of additives in food containers and packaging materials
- 4.Positive list of additives approved for using in food containers and packaging materials
- 5.Determination of specific migration limit

Name	The substance's CAS		Chemical name of the additive	
	添加剂名称	[9H, 31H-酞菁(2-)-N29, N30, N31, N32]-铜的溴化氯化物; C. I. 颜料绿36		
CAS RN	CAS号	68512-13-0		
Scope	使用范围	最大使用量(%)	特定迁移量或最大残留量/(mg/kg)	备注
	塑料	PE, PP, PS, AS, ABS, PET, PC: 按生产需要适量使用	5.0 (SML, 以铜计)	应符合着色剂 纯度要求, 见 注2
	涂料	按生产需要适量使用	5.0 (SML, 以铜计)	应符合着色剂 纯度要求, 见 注2
Plastics	Max. con.	The substance's approved scope		SML
				Note

Bis-phenol A

中华人民共和国卫生部
中华人民共和国工业和信息化部
中华人民共和国商务部
国家工商行政管理总局
国家质量监督检验检疫总局
国家食品药品监督管理局

公告

2011 年 第 15 号

4,4'-二羟基二苯基丙烷(Bisphenol A, 又称双酚 A 或 BPA)是聚碳酸酯、环氧树脂等多种高分子材料的原料,这些高分子材料被广泛用于生产化工产品和食品相关产品,如食品包装材料及容器。双酚 A 可通过食品包装材料及容器迁移至食品中,食品相关产品国家标准规定了其迁移量。科学研究表明,食品相关产品中迁移的双酚 A 极其微量,尚未发现双酚 A 对人体健康产生不良影响。

Bis-phenol A



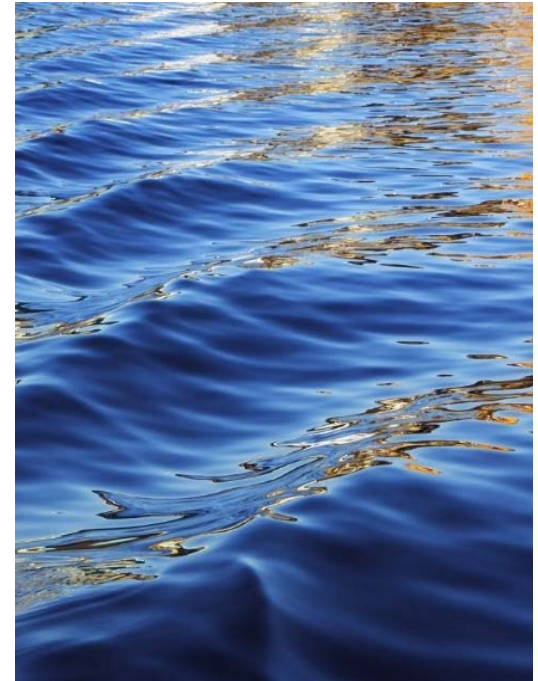
Manufacturing PC baby feeding bottles and other baby feeding bottles containing Bis-phenol A are forbidden since June 1st, 2011. Import and sale of PC baby feeding bottles and other baby feeding bottles containing Bis-phenol A are forbidden since September 1st, 2011. The recall of relevant products shall be the duty of the manufacturers and the importers.



Bis-phenol A is allowed to be used in the manufacturing of food packaging materials, containers and coatings other than baby feeding bottles. Its migration shall be in compliance with the limits in relative national standards.



Progress on food packaging standard



Overview

- Clean-up project for food packaging materials
- Administrative licensing on the new varieties of food related products
- The general integration of food related products standards
- Progress on some horizontal standards

Notification
on
the launch of the
Clean-up project
for
food packaging
materials

卫 生 部
工 业 和 信 息 化 部
农 业 部
商 业 部
工 商 总 局
质 检 总 局
国家食品药品监管局 文件

卫监督发〔2009〕108号

关于开展食品包装材料清理工作的通知

各省、自治区、直辖市及新疆生产建设兵团卫生厅(局),工业和
信息化主管部门,农业(农牧、畜牧兽医、农垦、乡镇企业、渔业)厅
(局、委、办),商务主管部门,工商局,质量技术监督局、出入境检验
检疫局,食品药品监督管理局:

为贯彻落实《食品安全法》,规范食品包装材料及包装材料用

Inspection on the application materials

- 451- for resins
- 3035- for additives

those can be used as food additives or food raw materials

those are sanctioned in GB 9685-2008 and requiring expansion in usage or use level

those applies to be new additives in food packaging materials

Inspection completed 100% by Jan. 2013.



Output-principles and procedures

- The explication of the Clean-up project for food packaging materials.
- Requirements on the application materials of the Clean-up project for food packaging materials.
- Working procedures of the Clean-up project for food packaging materials
- Key points in the inspection of the application materials of the Clean-up project for food packaging materials.
- scientific, just, confidential.



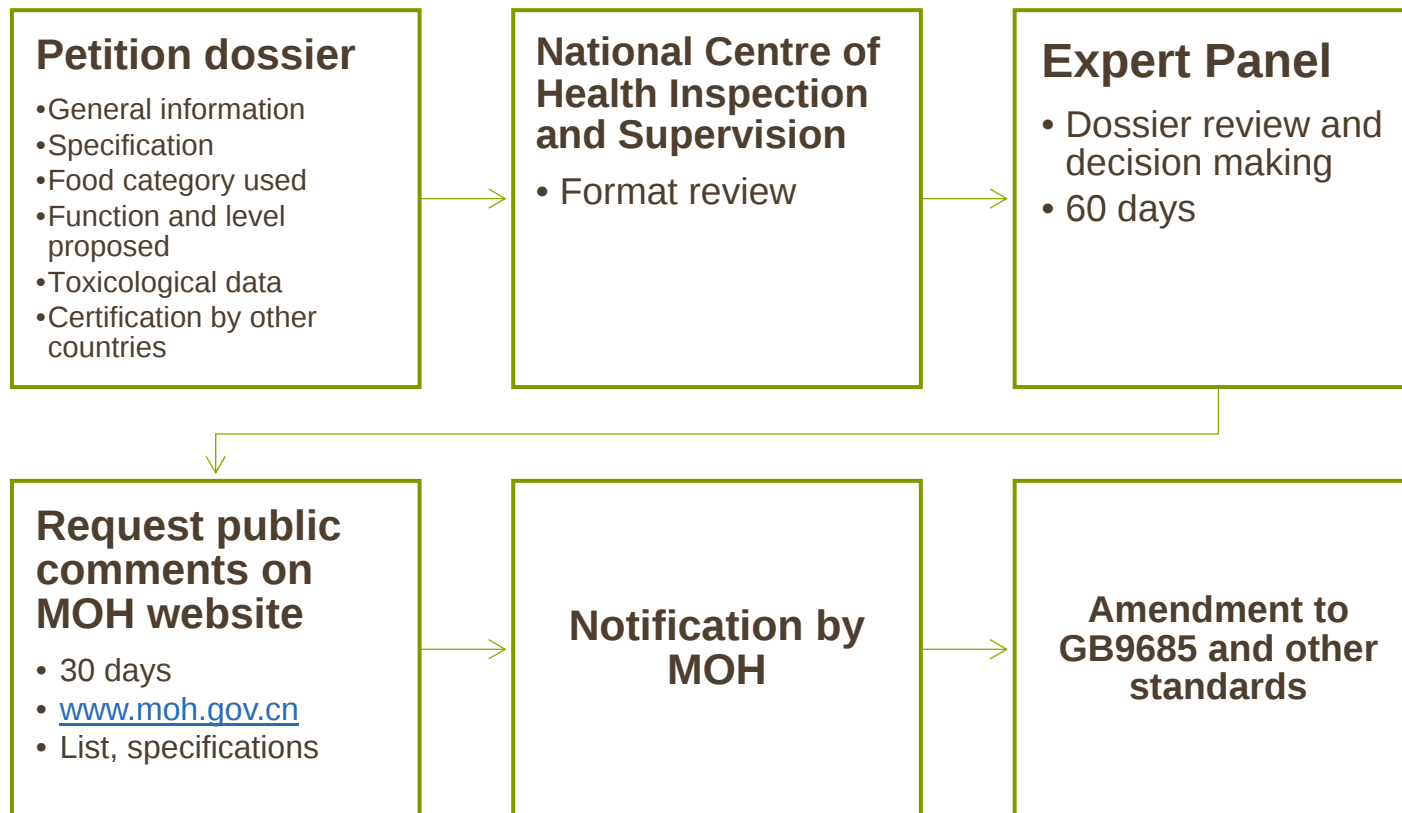
Output-lists of additives and resins approved

- Solicitation of public comments on MOH website for three times, including one list of resins, and three lists of additives for food packaging materials.
- *Announcement on the disclosure of the list of **107** resins can be used for food packaging materials* (MOH Announcement No. 23, 2011) and *Announcement on the disclosure of the list of **301** additives can be used for food packaging materials* (MOH Announcement No. 5, 2012).
- *Announcement on the disclosure of the list of **258** additives can be used for food packaging materials* (MOH Announcement No. 5, 2013).

Administrative Licensing on the New Varieties of Food Related Products

- Scope:
 - New food contact materials used for packages, tools and equipment
 - New detergents and disinfectants for food
- General requirements:
 - Clear use purpose with technical justification;
 - No harm to human health under normal use level;
 - No change to contacted food on color, odor and structure;
 - Use under GMP requirement.

FCS Pre-Market Approval Process



Administrative Licensing on the New Varieties of Food Related Products-Output

- Review more than 30 applications.
- Two lists were published on website for comments.

The General Integration of Food Related Products Standards-Object

- Food containers and packaging materials
- Instrument, equipment and lubricant used in food manufacturing and trade
- Detergents and disinfectors used for food
hygienic standards, safety standards and quality standards
relating to food safety

269 standards covered.

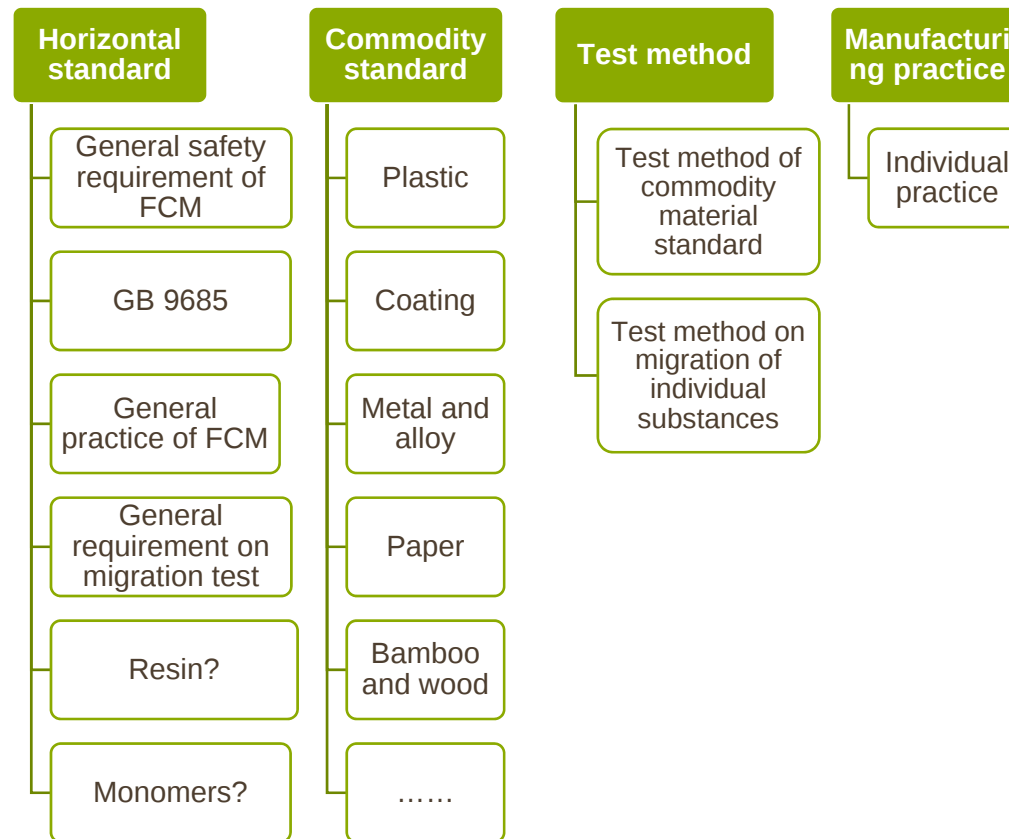
The General Integration of Food Related Products Standards-Target

- by end of 2013, five lists of standards should be raised :
 - abolished
 - established
 - revised
 - reverted directly
 - combined

The General Integration of Food Related Products Standards-Progress

- Establish integration principle
- Establish the standard framework
- Establish database of food standards
- Study on standards
- Resolve common problems
- Design and fill the evaluation form

Framework of Food Packaging Material Standards in Draft



Progress on Some Horizontal Standards

- **Four horizontal standards in draft**
 - Code for hygienic practice in manufacturing of food packaging materials
 - General principle for the testing methods of contacting simulants for food packaging materials
 - GB 5009.156-2003 General requirements for migration test of food packaging materials
 - GB 9685-2008 Hygienic standards for uses of additives in food containers and packaging materials

GB 9685-2008

- Scope
- Principles for uses of additives in food containers and packaging materials
- Positive list of additives approved for using in food containers and packaging materials
- Determination of limit and test methods
- Terminologies and Definitions

国家食品安全风险评估中心

China National Center For Food Safety Risk Assessment



Thank you !

