

# ESTABLISHING EXEMPTIONS FROM MANDATORY DECLARATION FOR PRIORITY FOOD ALLERGENS

Ad hoc Joint FAO/WHO Expert  
Consultation on Risk Assessment of Food  
Allergens - Meeting 4

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## CCFL request:

*Whether certain foods and ingredients, such as highly refined foods and ingredients, that are derived from the list of foods known to cause hypersensitivity, can be exempted from mandatory declaration.*

# Current exemptions

- ▶ high degree of concurrence between regions and countries for some foods & ingredients,
  - ▶ although precise exemption description/criteria may vary;
- ▶ Some exemptions specific to individual jurisdictions e.g.
  - ▶ ANZ -Gluten in beer, Coconut.
  - ▶ EU, Argentina, Paraguay - Tree nuts used to make distillates or ethanol.

# Soybean Oil exemptions

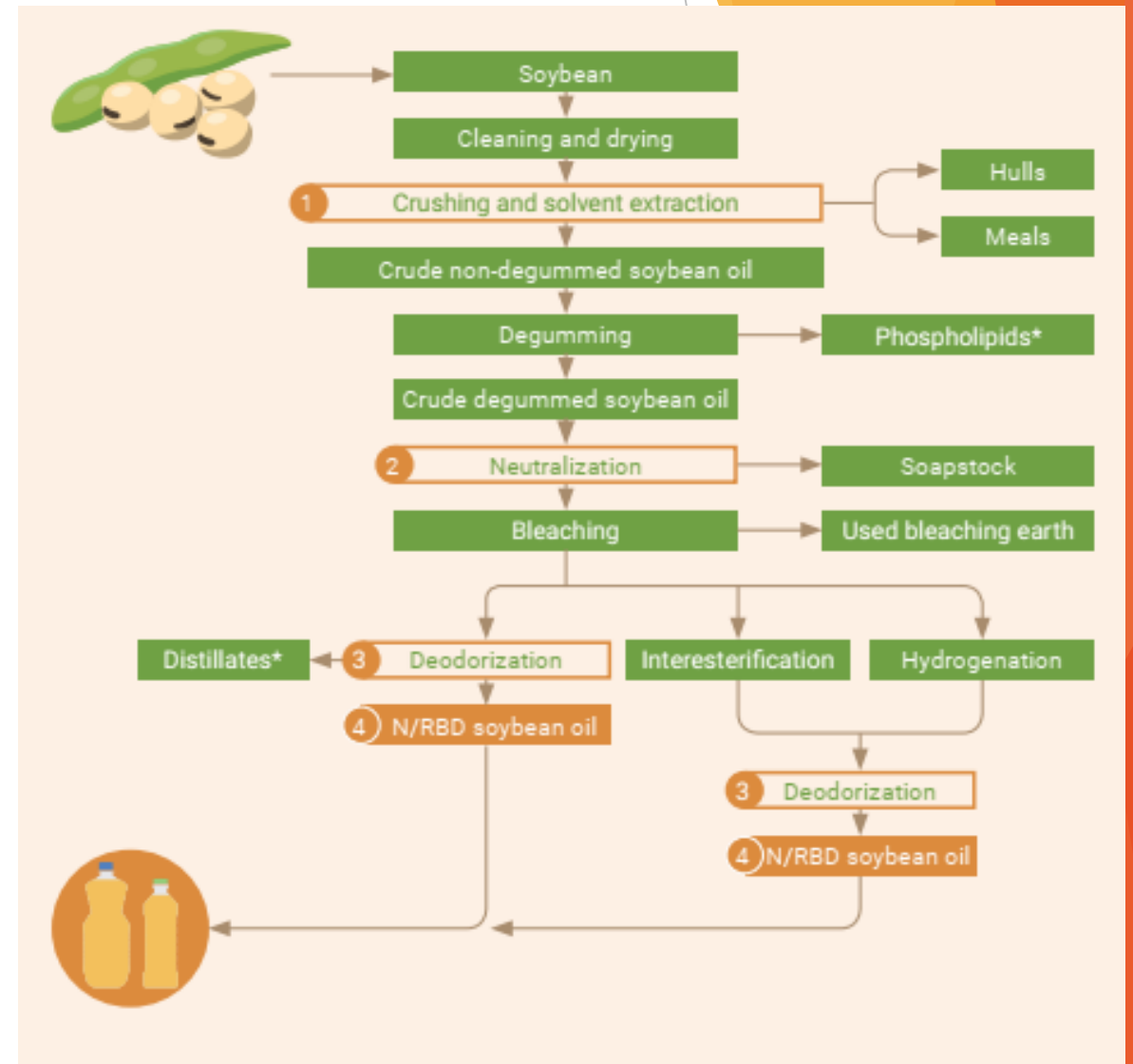
**ANZ** - degummed, neutralized, bleached and deodorized

**EU, Argentina, Paraguay, Chile** - Fully refined soybean oil and fat

**USA** - All highly refined\* oils, including soy oil

*\* undergone refining, bleaching and deodorizing*

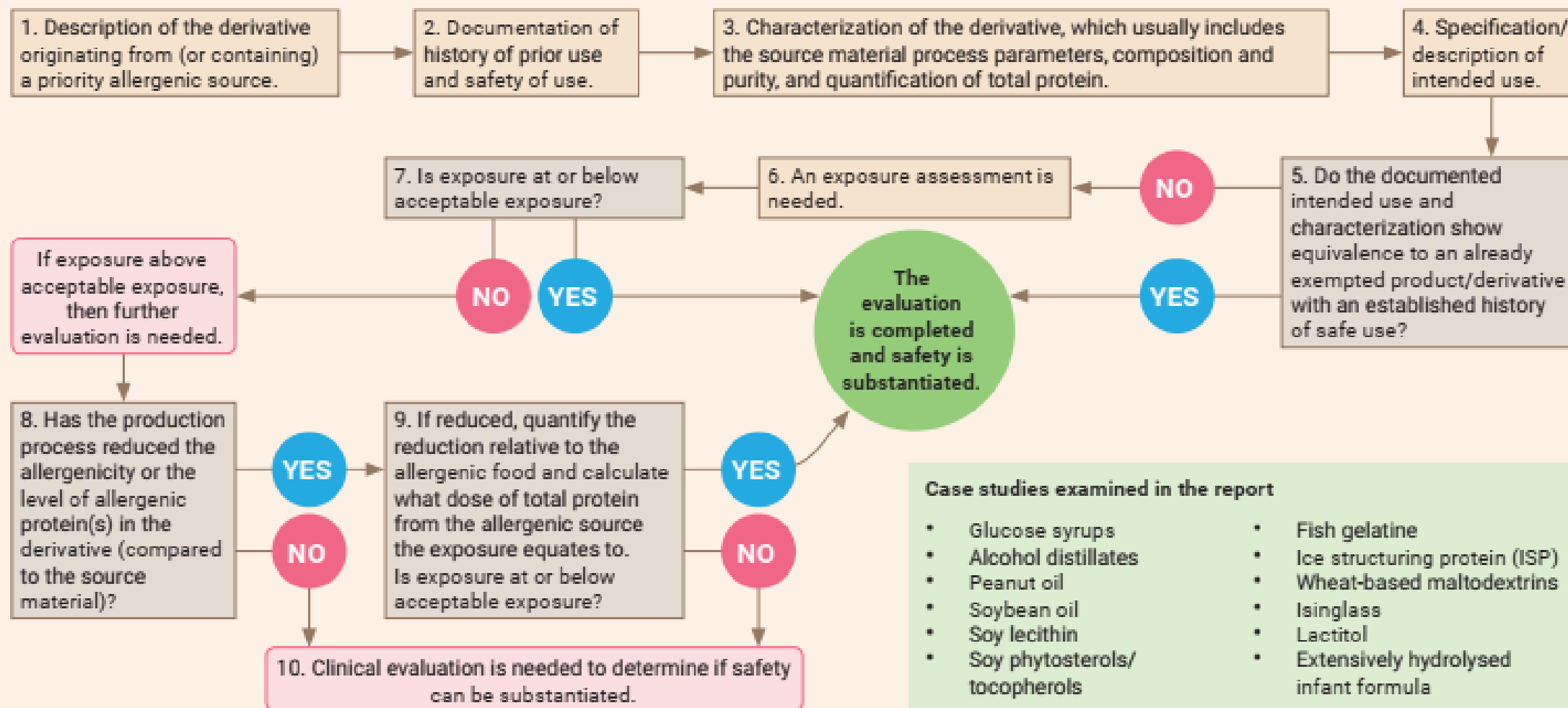
**China** - Soybean oil (refined) phospholipid



# Three essential components to consider

1. characterization of the derivative, includes source and composition, existing uses, safety and reported adverse events;
2. exposure assessment from proposed exempt uses for verification against an acceptable marker of safety.
3. analysis of proteins from allergenic source;

## Outline of the process for consideration of labelling exemptions for foods and ingredients derived from priority allergenic sources



# 1. Characterization of the derivative

1. Description
2. Documented history of prior safe use?
3. Characterization:  
source, process parameters,  
composition & purity, quantification of total protein.
4. Specification/description of intended use.
5. Is intended use and characterization equivalent to an already exempted safe product/derivative?

Yes - evaluation is completed and safe to exempt

No - proceed to exposure assessment

## 2. Exposure assessment

### 1. Is exposure at or below acceptable exposure?\*

Yes - evaluation is completed and safe to exempt

No - further evaluation required

- \* *Based on current exemptions RfD/30 provides adequate margin of safety.*
- \* *Consideration should also be given to data & exposure assessment quality.*



# Exposure assessment inputs

1. intended use levels for relevant food categories;
2. consumption values for relevant consumer groups per eating occasion;
3. analytical data or calculated equivalent of concentration of total protein allergenic source.

### 3. Potential reduction in allergenicity

1. Has production process reduced the allergenicity or the level of allergenic protein(s)?
2. If reduced, is exposure at or below acceptable exposure?

Yes - evaluation is completed and safe to exempt

No - Clinical evaluation required to determine if safety can be substantiated.

# Total protein quantification

- ▶ Use more than one test method, each based on different principles
- ▶ Select suitable methods for protein levels based on the RfD/30
- ▶ Assessments of potential alterations in the allergenicity using weight of evidence approach based on data from:
  - ▶ allergen profiling assays (e.g. mass spectrometry or allergen molecule-specific assays), and
  - ▶ IgE-binding studies using sera from relevant food-allergic individuals

## Clinical Evaluation

- ▶ When necessary, may require oral food challenge study

# Case studies

- ▶ Exposure likely < RFD/30
  - ▶ Soy Phytosterols/Tocopherols
  - ▶ Soybean Oil
  - ▶ Peanut Oil
  - ▶ Soy Lecithin
  - ▶ Fish Gelatine & Isinglass
  - ▶ Ice-structuring protein (ISP)
- ▶ RfD/10 to RfD/30 but history of safe use
  - ▶ Wheat-based glucose syrups (including dextrose)
  - ▶ Whey derived ethanol
- ▶ Likely to exceed milk RfD/30. Clinical studies required
  - ▶ Extensively hydrolysed casein (EHC)

# Conclusions

- ▶ the process developed by the FAO/WHO Expert Panel can be used to guide any future allergen labelling exemptions decisions both domestically and internationally.
- ▶ Establishment of safety is dependent upon consideration of data quality, outcome of the exposure assessment and review by relevant competent authorities.
- ▶ When safety is established, labelling exemption can be justified.



Thank You for Listening

