

Food manufacturer perspective on food packaging safety

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Food Packaging Forum Workshop
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1. Food Safety Risks

2. Packaging Food Safety Risks

3. Nestlé Packaging Food Safety Approach

There are Consumer food concerns...

- Mycotoxins
- Pesticides
- Additives
- Preservatives
- Authenticity
- Heavy Metals

The Telegraph

Nestle pulls Maggi noodles off Indian shelves as lead scare spreads

India suffers its worst food scare in a decade as Nestle's CEO tries to calm consumers



Nestle instant noodles have been banned in parts of India after high lead levels were found in some packets Photo: AFP

Which do not need additional help from packaging...

- Mineral oils in jute sacs (1991)
 - BADGE from metal coating (1996)
- SEM, ESBO from metal closures (2003)
 - ITX from UV-printing (2005)
 - BPA from PC and epoxy lacquers (2008-...)
- Benzophenone from printing inks (2009-...)
 - Mineral oils from printed/recycled paper (2010...)
- Odor issues – (many)



A packaging issue from the past...

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Last Updated: Tuesday, 22 November 2005, 16:57 GMT

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Baby milk scare widens in Europe

Swiss-based food giant Nestle has ordered the recall of baby milk from France, Spain, Portugal and Italy after tests suggested chemical contamination.

Police in Italy, the largest market of the four, have begun seizing 30m litres of the baby milk from shops and depots.



Italian authorities are seizing baby milk cartons across the country

The alarm was raised after traces of a chemical involved in the printing process were found in samples in Italy.

Nestle denies the chemical poses a risk to health but has recalled the cartons, with an expiry date of September 2006.

The scare began in June when a sample of liquid baby milk produced by Nestle showed traces of isopropyl thioxanthone, a photographic chemical known by the initials ITX.


ITX is a UV Photoinitiator used in inks.

Found by Italian Authorities in Nestlé infant formula

This occurred 10 years ago

But it is remembered as if it was yesterday...

The internet has a memory...



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Isopropyl thioxanthone

From Wikipedia, the free encyclopedia

Isopropyl thioxanthone (ITX) is used as a [photoinitiator](#) in printing.^{[1][2]}

Isopropyl thioxanthone

Isopropyl thioxanthone (ITX) is used as a [photoinitiator](#) in printing.^{[1][2]}

Recently, traces of [isopropyl](#) thioxanthone were found by [Italian](#) authorities in babies milk produced by [Nestlé](#).^[3]

 This article about an *aromatic compound* is a *stub*. You can help Wikipedia by expanding it.

4-Isopropyl-9-thioxanthenone	
Identifiers	
CAS Registry Number	83846-86-0 ✓
Jmol-3D images	Image 🔗
PubChem	158403

<https://en.wikipedia.org/wiki/Isopropylthioxanthone>

Screenshot from September 2015



It takes **years** to build trust
and fidelity in brands and
products

It takes **seconds** to
destroy that Trust

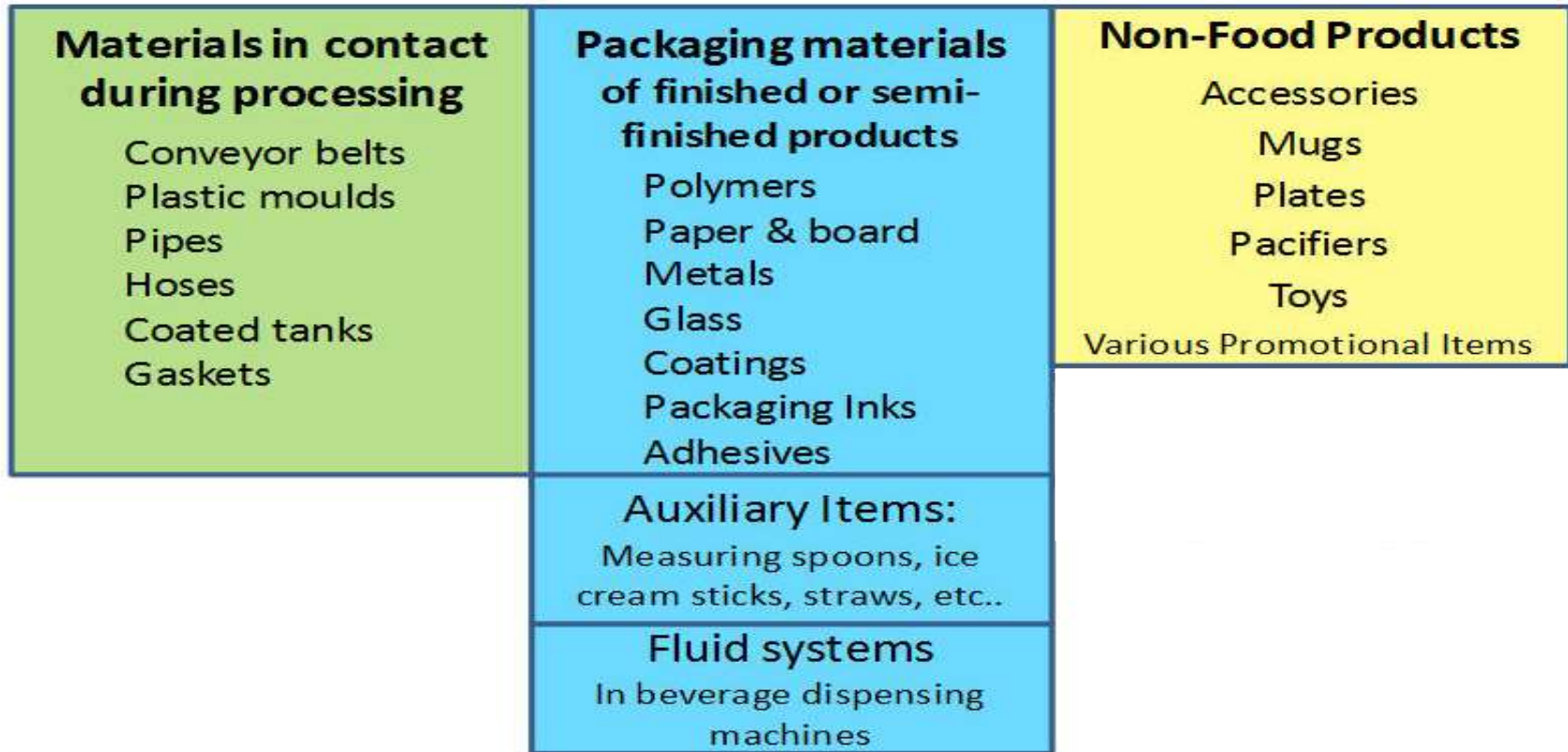


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Materials in contact with food items...



Makes for a complex supply chain...

Chemical industry



- Monomers
- Antioxidants
- Colorants
- Pigments
- Solvents
- UV stabilisers
- Slip agents
- Resins

RAW MATERIALS

Paper and board
Metal, Glass
Adhesives
Plastics
Inks



Converters



Packaging Materials

Co-packers

Nestlé



Retailers



Consumers



But when things go "viral"....

Chemical industry



- Monomers
- Antioxidants
- Colorants
- Pigments
- Solvents
- UV stabilisers
- Slip agents
- Resins

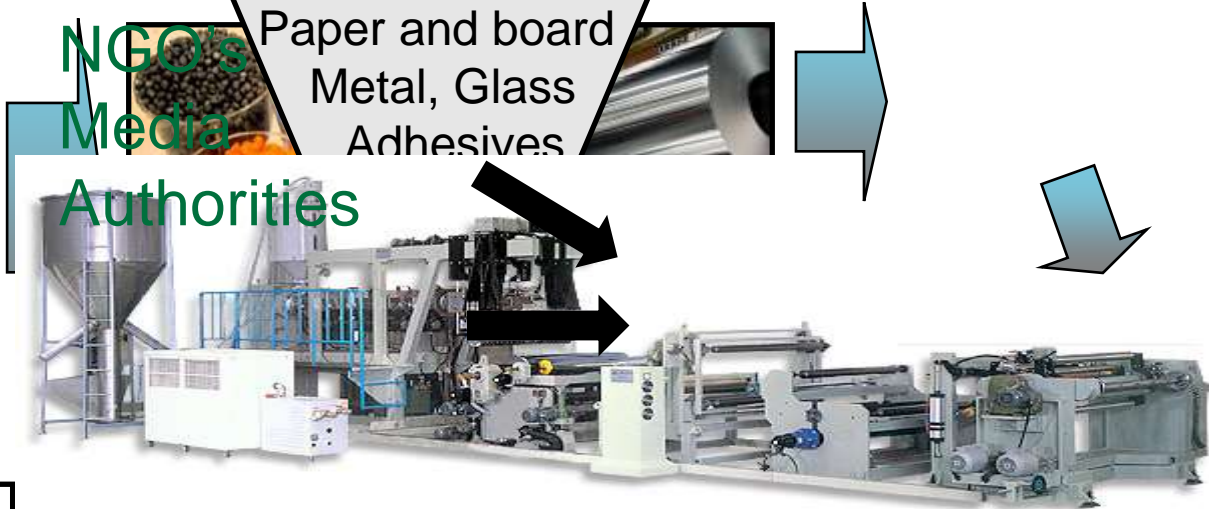


Consumers

RAW MATERIALS

NGO's
Media
Authorities

Paper and board
Metal, Glass
Adhesives



Converters



Packaging Materials

Co-packers



When there is a problem, we find that:



- Suppliers do not always deliver what was promised...
- Damage is usually to the Nestlé brand(s)
- Consumer Perception is empowered by the internet
 - Information (right and wrong) at your fingertips...
 - Information lasts a long, long time....

Find out before someone else finds out for you....

To prevent issues we must manage risk...

- Food Safety / Toxicology
- Regulatory
- Consumer Perception

**Nestlé must go beyond regulatory requirements
to address all of these concerns!**

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► Globally, food packaging has four big regulatory players

- US FDA
- Mercosur
- China GB
- EU



- Regulations help level the playing field
- Not completely overlapping requirements

To address regulations, Nestlé packaging CoC's have two parts

CoC/DoC for Regulatory - certifies to:

- Food application
- Conditions of use
- Governmental regulations

LoC for List of Components/Chemical Composition

- Complete compositional information
- CAS number level of detail
- CONFIDENTIAL DOCUMENT

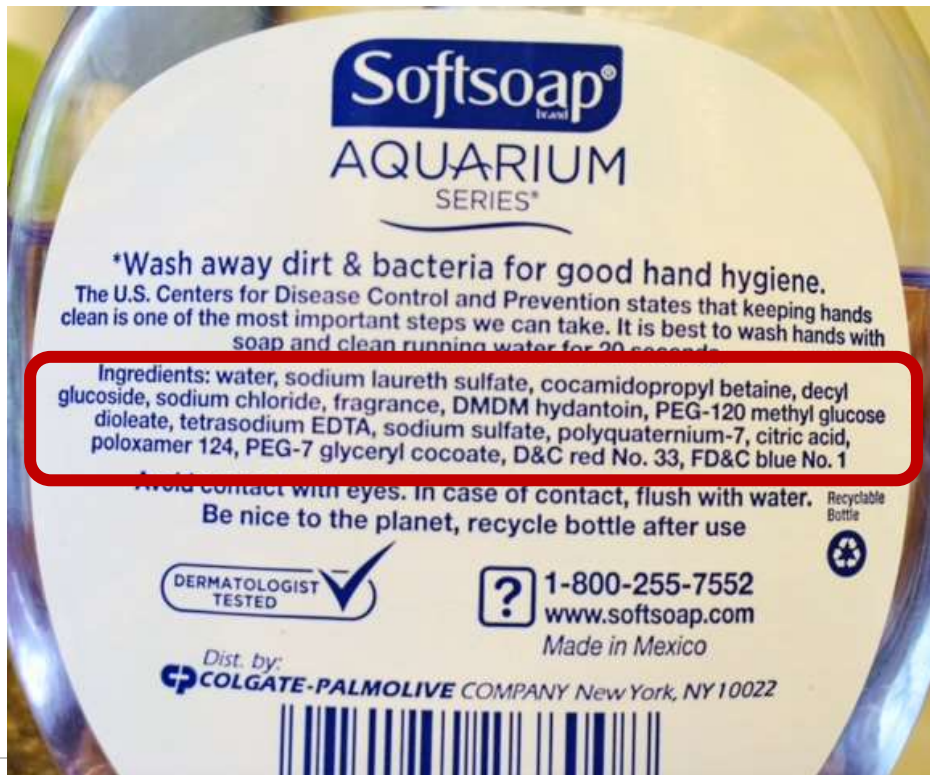
Ingredients for Food Products...

Are an integral part of the food label.



Ingredients for hand soap...

Is an integral part of the label.



Not required for
food packaging
materials.



Product Ingredients Panama

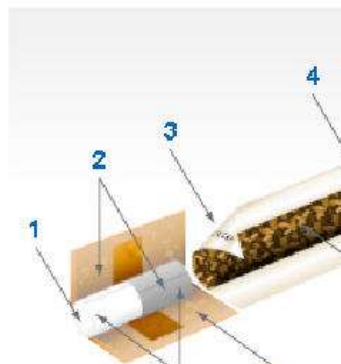
For information about ingredients in a please go to the box on the right of this

For a full list of ingredients added to tobacco chosen, [click here](#)

For information about the ingredients from the list below.

Component

For a full list of ingredients used in all tobacco country you have chosen, [click here](#)



Product Ingredients Panama

[A](#) [AA](#) [Print](#)

Full list of ingredients in non-tobacco components used in Philip Morris International cigarettes manufactured for sale in Panama both in the domestic and duty free markets

Lista completa de ingredientes de materiales distintos del tabaco utilizados en los cigarrillos de Philip Morris International, fabricados para su venta en Panama tanto de los productos a la venta en el mercado doméstico como de los productos vendidos en el mercado libre de impuestos - mercado "duty free"

The following is a full list of the ingredients used in the side seam adhesives in all brands.

[Back to Philip Morris Products in Panama](#)

Side Seam Adhesives

adhesivo de la costura lateral del cigarrillo

Updated 9 February 2011

Ingredient <i>Ingrediente</i>	maximal use level (% in the cigarette) <i>nivel máximo utilizado (% del cigarrillo)</i>	CAS#
ethylene-vinyl acetate copolymer <i>copolímero de etileno y acetato de vinilo</i>	0.2	24937-78-8
polyvinyl acetate <i>acetato de polivinilo</i>	0.2	9003-20-7
hydroxyethylene-vinyl acetate copolymer <i>copolímero hidroxi-etileno vinilacetato</i>	0.1	25213-24-5
polyvinyl <i>polivinil</i>	0.005	54626-91-4



It is in the interest of all partners in the packaging value chain to have a full knowledge of the products they sell, including the raw and packaging materials they purchase.

In other words: Full transparency

Transparency Needed?



**THERE WILL ALWAYS BE SOMEONE WHO
SAYS THAT THEY CAN DO IT CHEAPER...**

***Think like a Food
Company***



Thank you for your attention

QUESTIONS ?

