

European Federation of Allergy and Airways Diseases Patients Associations

Special case study on cross contamination: the use of latex during the preparation of products and the risk of allergic reactions

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What is latex? (I)

With the term

natural latex

we refer to

natural latex deriving from natural rubber

it comes from rubber tree (Hevea bresiliensis) a tropical plant of Euphorbiaceae family



What is latex? (II)

Initially latex is an emulsion of: Water - Rubber particles - Inorganic salts – Rosins Sugars - Proteins

To get the final product, other ingredients must be added:

Ammonia and Chemical solvents (aromatic, alyphatic and chlorinated hydrocarbons), sulphur, paraffin, chlorine and antistatic agents, accelerators and antioxidants

At the end of industrial production latex contains:

many protein chains with antigenic power

which might trigger an allergic reaction



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What is latex allergy?

- It is a clinical manifestation, continuously increasing, triggered by proteins contained in «ammoniac» latex, with high antigenic activity
- The reaction involves skin, both cardiovascular and respiratory systems, and in some cases it is fatal

ABOUT 40,000 ITEMS CONTAIN LATEX!

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Contact with latex antigens

It may happen:

• directly

through skin, mucosae, blood

indirectly

inhaling powders containing latex antigens

One of the main transport means is **talcum**, utilized as lubricant of **rubber gloves**



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Latex + food cross contamination

There is evidence of cross-sensitization among latex and food (some vegetables)

FOOD, contaminated by latex containers or gloves, may trigger allergic reactions like the ones directly triggered by latex*



Why using latex gloves in food manipulation?

According to *Regulation (EC) No 178/2002* of the European Parliament and of the Council of 28 January 2002 laying down the general principles and requirements of food law, establishing the European Food Safety Authority and laying down procedures in matters of food safety and the Regulation (EC) No 852/2004 of the European Parliament and of the Council of 29 April 2004 on the hygiene of foodstuffs, is encouraged the use of GHP manuals, but, since the manuals we know only recommend to ...wash properly hands and nails before entering in production areas...and do not prescribe to use latex gloves... WHY RISK TRIGGERING ALLERGIC REACTIONS IN KEEPING THEIR USE?

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Considering that the use of latex gloves:

- Can be non-compulsory, provided Good Health Practices are followed by carefully washing hands and cleaning nails,

- Might trigger dangerous allergic reactions



What might be recommended to European Food Industry (II)

Our requests to European Food Industry are:

- 1. Do not include gloves use in your GHP, if not compulsory
- 2. If the use of gloves must be prescribed, avoid the ones containing latex
- If latex gloves are not avoided: inform clearly the public, (for instance printing on the label) that
 food was manipulated with latex gloves



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Thank you!

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