

MCPD in food - Guide for the correct analytical approach in order to verify compliance with current legislation following the entry into force of Reg 1322/2020

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Commission Regulation (EC) No 1881/2006 sets maximum levels for certain contaminants in foodstuffs. In the Annex to the Regulation maximum levels there were for 3-monochloropropanediol (3-MCPD) and glycidyl fatty acid esters

The EFSA CONTAM Panel established an updated group TDI of 2 µg/kg body weight per day for 3-MCPD and its fatty acid esters. This TDI is not exceeded in the adult population. However, a slight exceedance of the TDI was observed in case of consumers of the younger age groups and in particular in case of infants receiving formula only.

Given the possible health concern for infants and young children, it has been appropriate to establish a stricter maximum level for vegetable oils and fats, destined for the production of baby food and of processed cereal-based food for infants and young children.

Also fish oil and oils from other marine organisms can contain high levels of glycidyl fatty acid esters and 3-MCPD and its fatty acid esters. In order to ensure a high level of human health protection, it has been appropriate to establish a maximum level for glycidyl fatty acid esters and 3-MCPD and its fatty acid esters in fish oil and oils from other marine organisms.

Neutron Proposal:

In order to check the compliance with the limits above Neutron proposal is the following:

- ⇒ Hydrolyzed vegetable proteins
3-MCPD (3-Chloropropane-1,2-diol)
- ⇒ Soy sauce
3-MCPD (3-Chloropropane-1,2-diol)
- ⇒ Vegetable oils and fats, fish oils and oils from other marine organisms placed on the market for the final consumer or for use as an ingredient in food, with the exception of virgin olive oils
3-MCPD-Sum and Glycidyl esters (Glycidol) in oil (Reg EU 2020/1322)
- ⇒ Infant formula, follow-on formula and foods for special medical purposes intended for infants and young children and young-child formula
3-MCPD-Sum and Glycidyl esters (Glycidol) in infant formula (Reg EU 2020/1322)