

**Stora Enso Division Packaging Materials  
Liquid Packaging and Carton Board Unit & Beihai mill  
Customer Information on Fluorinated Substances**

**Background**

Perfluoroalkylated substances (PFAS), known as perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA), two man-made chemicals, have been used widely in industrial and consumer applications since the mid-20<sup>th</sup> century. They persist in the environment because they degrade slowly. Furthermore, they can accumulate in the human body, meaning it can take many years to eliminate them.

Fluorinated substances can be used to provide packaging materials with grease proof. Mills of Stora Enso Liquid Packaging and Carton Board Unit (i.e. Ingerois, Imatra, Skoghall, Fors) and Beihai mill do not use any fluorine containing active components (including PFOA and PFOS).

The safety of fluorinated substances has been discussed and researched already for years. There is ongoing scientific and public debate about the possible risks of fluorinated substances in food contact materials. In some cases fluorinated substances can be used in the surface of food contact materials (FCM) of paper and paperboard (e.g. cookie sheets, popcorn bags and some fast food packaging applications). Fluorinated substances constitute a large group of chemical substances, of which, some are persistent and bio accumulative. Some of them are also suspected to be carcinogenic, immunotoxic and endocrine disruptors.

Currently, there are no validated analytical methods that can specifically identify and measure these substances in the raw material or in the final paper based food packaging.

**Safety and compliance of products of Liquid Packaging and Carton Board Unit & Beihai Mill**

The companies must ensure compliance with the Regulation (EC) 1935/2004 (article 3). For the organic fluorinated substances, it can be done by documenting: 1) that these substances have not been added, 2) compliance with the indicator value or 3) that a possible content of fluorinated substances above the indicator value does not cause migration to food in amounts that can endanger human health.

Paper and paperboard products produced at the mills of Liquid Packaging and Carton Board (LPCB) and Beihai mills are in compliance with the Regulation (EC) 1935/2004 on materials and articles intended to come into contact with food and are produced in accordance with Regulation (EC) 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food.

All mills of Stora Enso Liquid Packaging and Carton Board Unit (LPCB) and Beihai Mill use fresh and virgin fibres. All used chemical additives are approved for intended end-use and they comply with German BfR Recommendation XXXVI and/or US FDA Regulation 21 C.F.R where applicable. The pulps used for paper and paperboard production are elementary chlorine free (ECF).

Products of LPCB Unit and Beihai Mill are not treated with fluorinated substances. Fluorine containing active components (including PFOA and PFOS) that have a function as fat and water repellent are not used as raw material or intentionally added on the surface of the paper and paperboard.

This information is valid for the paper and paperboard delivered by the mills of Liquid Packaging and Carton Board Unit and Beihai Mill, before further converting of packages.

Imatra  
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