

NON-INTENTIONALLY ADDED SUBSTANCES (NIAS) SERVICES

FOOD CONTACT MATERIALS REGULATORY SUPPORT

Non-intentionally added substances (NIAS) and Non Listed Substances (NLS) represent a major issue for the food contact materials industry.



NIAS Challenges

As a requirement of the plastic food contact regulation (EU) No 10/2011, potential health risks in the final food packaging products or articles should be assessed by the manufacturer in accordance with internationally recognised principles of risk assessment.

NIAS can include decomposition or degradation products, impurities of starting materials or contaminants from recycling processes. Non Listed Substances are colorants, solvents, polymeric production aids or aids to polymerisation which are exempt from authorisation in regulation (EU) No 10/2011 are subject to national regulations or need to be risk assessed.

>95%

**OF THE SUBSTANCES
MIGRATING FROM CAN
COATINGS**

>60%

**OF SUBSTANCES
MIGRATING FROM
POLYPROPYLENE FOOD
PACKAGING**

**Estimated
potential migration
substances that
could be classified
as non-intentionally
added substances
from typical food
contact materials**

NIAS Risk Assessment Steps

Our food contact experts deliver NIAS risk assessment solutions via a stepwise process which addresses all sources of risk and optimises value for your food contact material programs.

- Gathering chemical composition, as complete as possible, for the material, including all relevant information from the manufacturing process.
- Analytical Screenings. This can include investigations which use a series of analytical approaches to determine all potential migrants. These NIAS screening programs are executed with a wide range of sample preparation techniques (e.g. extraction with solvents under controlled conditions) and analytical techniques (GC-MS, GC-Q-TOF, LC-MS, ICP-MS) to identify and semi-quantify the presence of NIAS.
- Identification of hazardous substances based on literature surveys and/or based on international recognised scientific principles on risk assessment (e.g. TTC approach / Cramer classification).
- Exposure assessment. Migration studies and/or exposure assessment to define real exposure and estimated daily intake.
- Final risk assessment on any potential health risk associated with the final material or article.

Our scientists and regulatory experts have more than 20 years' experience in food contact materials testing and advisory services, deliver cost effective analytical data packages, regulatory guidance and documentation to achieve compliance for your food contact materials, and so help you achieve a marketplace advantage.

FOR MORE INFORMATION



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