



Characterisation of corrugated board and its production

Edition:

January 26, 2017

Scope of application:

This description applies to corrugated paper

- which is exclusively made from paper

This description is not applicable to

- plastic coated papers, which fall within the scope of the regulations for plastics.

Legal bases:

we confirm that our products are manufactured according to the generally recognized industry standards and rules. If used as intended and consideration of the “good manufacturing practise”, our products fully comply with the following laws, directives and regulations:

German food and feed code (Germany)

LFGB § 30

LFGB § 31

Recommendation XXXVI of the Federal institute for risk assessment: “papers, cardboards and pasteboard for use with food contact”

DIRECTIVE 94/62/EG of the EUROPEAN PARLIAMENT AND the BOARD OF DECEMBER 20 1994 FOR PACKING AND PACKING WASTE according to the guideline 94/62

According to directive 94/62/EG including changes 2004/12/EG, 2005/20/EG and 2013/2/EU it is guaranteed that the concentration of lead (PB), cadmium (CD), mercury (HG) and chrome VI (Cr6+) does not exceed cumulatively the weight of 100 ppm.

Single limit values:

Cadmium < 0.5 [mg/gk]

Chrome VI not detectable

Lead < 3 [mg/kg]

Mercury < 0.3 [mg/kg]

The proof of the water-soluble portions of lead, cadmium, mercury and chrome VI is done according to the methods for the investigation of papers, cardboards and pasteboards by means of atomic absorption spectrometry from the aqueous extract from paper, cardboard and pasteboard.

Dunapack Packaging

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EN 13427, EN 13428:	avoidance of packing waste by way of protecting resources
EN 13430:	packing that can be recycled
EN 13431:	energetic usable packing
EN 13428, EN 13695-2;	hazardous material
EN 13695-1:	heavy metal

Both corrugated paper as well as printed corrugated paper in standard qualities is recyclable by 100 %

Directive 76/769 EWGG

of the Board of July 27, 1976 for harmonization of the law- and administrative regulations of the member countries for restrictions of the marketing and usage of certain dangerous substances and preparations.

Directive 2006/122/EG for restrictions of marketing and usage of certain dangerous substances and preparations (Perfluorooctanesulfonates)/PFOS

PFOS is mainly used to make materials like textiles, carpets and papers, grease-, oil -and waterproof. This substance is not used in the production of corrugated board.

Commission Decision 2009/251/EG

The biocide dimethylfumarate is not used by Mosburger.

Directive of the EDI (Swiss Departement of the Interior) SR 817.023.21

of November 23, 2005 (as of April 1, 2010)
with regard to article 26g and 26 I and related appendices.

Phytosanitary export restrictions

Corrugated board is not counted to the group of untreated wood products therefore "phytosanitary export restrictions" are fulfilled.

EuPIA Guideline on Printing Inks

applied to the non-food contact surface of food packaging materials and articles.

Sustainability

For the production of corrugated board Mosburger is using primary and secondary papers. The suppliers of primary papers proof their sustainability via certificates (e.g. PEFC or FSC) Secondary papers consists of 100 % recycled paper therefore a causal relationship to forestry does not exist.

REACH Regulation EG 1907/2006

From the directives' point of view Mosburger as a downstream user
Thus our obligation is mainly limited to:

- Check the (expanded) safety data sheet (of the supplier) and implement the risk-management-measures recommended therein.
- Feed-back the supplier regarding the own usage of the material
- Query the suppliers regarding adherence of the REACH requirements
- Adherence of the restrictions' conditions.

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European Union Timber Regulation (EUTR) 995/2010

The EU-regulation 995/2010 lays down the obligations of market players who bring timber and timber-products on the internal market the first time and the traders' obligations.

Mosburger GmbH buys all raw paper on the internal market.

Thus we do not put additional material in circulation.

We confirm that we attend any other duties as a distributor in connection with above mentioned regulation.

Mosburger GmbH also attests its responsibility with its FSC certification.

Packaging for Food

Regulation 1935/2004/EG

About materials and items determined to get food contact.

Thereby though the migration of substances on the part of the user has to be considered.

Regulation 2023/2006/EG on good manufacturing practice of materials and articles, which are intended to come into contact with food.

Here we are referring to our internal manufacturing practices.

For the used raw materials we have certificates from our suppliers, but we do not check the assured characteristics.

Mineral Oil Components in Groceries

As a manufacturer of corrugated paper we recognized the problems concerning mineral oils related to corrugated paper very early. As a result of that we have drawn the attention to and have traced them. Several investigations agree on one thing namely that mineral oil saturated hydrocarbons (MOSH) as well as mineral oil aromatic hydrocarbons (MOAH) are substantiated in groceries.

The chemical analytics (with Dr. Koni Grob leading the way) face the huge challenge to find the source of mineral oils which are contained in groceries.

There's a large amount of possible sources which have been identified:

- Environmental appearance (air as well as soil)
- Over the course of production as well as processing of groceries
- Materials which are in contact with groceries
- Additives
- Pesticides
- Animal feed
- Over the course of warehousing or transport

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Possible sources concerning corrugated paper packaging:

Paper made of recycling materials

The main source of mineral oils occurring in the recycling circulatory might be printing colour which is used for offset print. In the last 30 years the quality of recycled paper has been optimized so that the amount of mineral oils could be reduced by more than 75 percent.

Printing colour and adhesives

The printing colours as well as adhesives which are used in our plants are free of mineral oils.

Functional Barrier against possible migration of mineral oil components

At the moment the development of a functional barrier is highly investigated. Centre stage of those investigations is as following:

- Barrier effect down-the-line to the end of the best-before date of the packed grocery
- Economically justifiable
- Barrier has to be recyclable by 100 percent

Corrugated paper made of recycling materials used as food packaging

In strict accordance with the following points and according to current knowledge corrugated paper can be harmlessly used as primary food packagings:

- Deep cooled storage
- Predictable contact time at room temperature which lasts no longer than 24 hours
- Groceries which are supposed to be washed or peeled

According to our current knowledge our functional barrier can be harmlessly used for primary food packaging when:

- Predictable contact time at room temperature which lasts no longer than 10 days

For every other usage corrugated paper can be harmlessly used for secondary food packaging as long as there is a functional barrier provided by the food packer.

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Migration of substances into the packed product:

As the migration of substances is in causal connection to affinity and simulant- solvents can not display this analogue, the migration factor can only be determined by the customer himself. Alterations of the substances' proportion in the packaging can be caused by environmental impacts (e.g. storage in the surrounding fields of substances) Corrugated paper does not show a functional barrier. Dual-use substances are not employed. According to our long-time experience however, a sensorial impact caused by our products is not to be expected.

- Our source of information were the existing safety data sheets of our preliminary suppliers. It is important to note that on EC safety sheets the obligation to declare dangerous components is only given if they exceed specific concentration limits. Therefore Mosburger GmbH does not guarantee that there are no trace- elements of the listed substances in the product.
- Neither we nor our raw material suppliers do selective analytical examinations regarding above named substances in form of contamination.
- All information is according to our actual state of knowledge. It is however no confirmation of product characteristics and does not substantiate a legal relationship.
- This is no EC safety data sheet as per valid ordinance.

with best regards
M O S B U R G E R GmbH

A handwritten signature in blue ink, appearing to read "Bernhard Kuffner".

.....
i.V. Ing. Bernhard Kuffner, BSc., MSc.
Head of Quality Management, Vienna

A handwritten signature in blue ink, appearing to read "Johann Stöllinger".

.....
i.V. Johann Stöllinger
Head of Quality Management, Strasswalchen

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