

To: Met Kagitcilik - Metpack

PRODUCT SAFETY STATEMENT

Product Name(s)	Carta Dedic Fresh
Production Site(s)	Metsä Board Tako Finland (Paperboard), Metsä Board Husum Sweden (Paperboard)
Product Description	Food service board, uncoated, hard sized, OBA free

The content of this statement is valid only for the Metsä Board product name(s) mentioned above.

Metsä Board is a leading European producer of folding boxboards and white linerboards made from fresh fibres. Its lightweight paperboards are developed as the perfect fit for consumer goods, retail-ready and food service packaging. The pure fresh fibres Metsä Board uses are a renewable resource, traceable to origin in northern forests. Products are manufactured in Metsä Board production sites in compliance with good manufacturing practice and quality management system certified according to ISO 9001, ISO 14001 and ISO 22000.

FOOD CONTACT

Declaration of Compliance

We hereby state that Metsä Board products are in compliance with the following global food contact laws and regulations. Products have been tested by an independent laboratory for suitability for food contact and compliance with the regulations and recommendations, taking also into consideration the declarations of compliance provided by our raw materials and additives suppliers and additional information obtained on a confidential basis.

The trade name(s) mentioned above are suitable for food contact as described below.

EU:

Regulation (EC) No. 1935/2004 on materials and articles intended to come into contact with food	Complies when applicable and under foreseeable conditions of use
Regulation (EC) No. 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food	Complies when applicable and under foreseeable conditions of use

Germany:

BfR (Bundesinstitut für Risikobewertung) XXXVI. Paper and board for food contact	Both dry and non-fatty foods as well as moist and fatty foods
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USA:

The Federal Food, Drug, and Cosmetic Act and all applicable food additive regulations, including: 21 C.F.R. §§ 176.170 ("Components of paper and paperboard in contact with aqueous and fatty	All food types under FDA's Conditions of Use A ("High temperature heat-sterilized (e.g., over 212°F)") through H ("Frozen or refrigerated: Ready-prepared foods intended to be reheated in container at time of use")
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foods”) and 176.180 (“Components of paper and paperboard in contact with dry food”)
China:
GB9685-2008 Hygienic Standards for Uses of Additives in food containers and packaging materials

All additives used in the manufacture of the product are listed in GB9685-2008 or subsequent MOH Announcements for the appropriate use

GB11680-1989 Hygienic Standard on Raw Paper for Food Packaging Use

Complies when applicable and under foreseeable conditions of use

NON USE WARRANTY

We hereby warrant that Metsä Board does not use the substances listed below in its production processes. Based on testing and/or information received from raw material suppliers this product is free from substances listed below or, where these substances exist as traces in the raw materials or are generated during the manufacturing process, their content is below the limits specified in applicable legislation or agreement, and never exceeding the threshold limit of 0,1% by weight of the product.

1. Recycled material	This product is manufactured from fresh fibres and does not contain any printed recycled material.
2. Chlorine	Pulps used in production of the product come from ECF (elementary chlorine free) and TCF (total chlorine free) processes.
3. Heavy metals	No heavy metals are intentionally added during the manufacturing process. Any traces of lead, mercury, cadmium and chromium (VI) present in the product do not exceed 100 ppm in total by weight as regulated in <ul style="list-style-type: none"> • Directive 94/62/EC on Packaging and Packaging Waste and its amendments. • CONEG: The Model Toxics in Packaging Legislation
4. ResAP (2002) 1	This product complies with the restriction limits set forth in Tables 1 and 2 of Council of Europe Resolution ResAP (2002) 1 on paper and board materials and articles intended to come into contact with foodstuffs.
5. Genetically modified organisms (GMO)	No GMO based raw materials are used in the production process. GMO as defined by EU Directive 2001/18/EC means an organism, with the exception of human beings, in which the genetic material has been altered in a way that does not occur naturally by mating and/or natural recombination.
6. Animal origin	Raw materials of animal origin are not used in the manufacturing of the product.
7. Conflict minerals	Chemicals containing gold (Au), tantalum (Ta), tin (Sn) and wolfram (W) also known as tungsten, are not used in the manufacture of the product. We also hereby declare that raw materials originating from the Democratic Republic of Congo are not used as raw materials and the product fulfils the requirements of the Dodd-Frank Wall Street Reform and Consumer Protection Act.

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8. Brominated flame retardants	<p>Polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) as listed in EU Regulation 757/2010 amending Regulation (EC) No 850/2004 of the European Parliament and of the Council on persistent organic pollutants (POPs) as regards Annexes I and III.</p> <p>Directive 2002/95/EC (RoHS) and 2011/65/EU (RoHS 2 Annex II) as amended on the restrictions of the use of certain hazardous substances in electrical and electronic equipment.</p>
9. California Proposition 65	<p>Substances listed in California Proposition 65 The Safe Drinking Water and Toxic Enforcement Act of 1986 are not used as raw materials. In case listed substances are present as traces, the exposure is estimated to be below relevant safe harbor levels. If no safe harbor level is given, an internal risk assessment has been performed to show that the anticipated exposure level will not pose a significant risk of cancer or reproductive harm.</p>
10. Ozone depleting substances	<p>Substances listed in Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer.</p> <p>Substances listed in Montreal Protocol 1987.</p>
11. UNEP 12 Chemicals, Persistent organic pollutants	<p>Aldrin, Chlordane, Dieldrin, DDT, Endrin, Heptachlor, Hexachlorobenzene, Mirex, Toxaphene, Polychlorinated biphenyls (PCBs), Dioxins and Furans as listed in United Nations Environment Programme 1997.</p>
12. Extremely Hazardous Substances	<p>United States Environmental Protection Agency (US EPA) Extremely Hazardous Substances List Appendix A to Part 355.</p>
13. Other substances of concern	<p>Anthraquinone Asbestos Azocolourants and azodyes Benzophenone and hydroxybenzophenone Bisphenol A, Bisphenol S and Bisphenol F Butylated hydroxyanisole (BHA) Butylated hydroxytoluene (BHT) Creosote Diethylhexyladipate (DEHA) Fragrances Isopropylthioxanthone (ITX) Melamine Natural rubber latex materials Nonylphenols and nonylphenol ethoxylates Pentanedione-2,4-titanium Perfluorinated chemicals (PFCs) including perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid and its derivatives (PFOS) Polyvinylchloride (PVC) Triclosan</p>

INDUSTRY GUIDELINES AND POLICIES

Metsä Board complies with the Industry Guideline for the Compliance of Paper & Board Materials and Articles for Food Contact. Issue 2, September 2012. Developed by the European paper and board food packaging chain:

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CEFIC (suppliers of chemicals), CEPI (paper and board manufacturers); CITPA (paper and board converters); FPE (paper and board multilayer manufacturers).

REACH

Metsä Board is committed to the requirements of REACH Regulation ((EC) No. 1907/2006) concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals and only uses chemicals fulfilling the provisions laid down in the regulation.

Metsä Board products comply with the relevant restrictions set forth in Annex XVII on restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles. Furthermore, substances subject to authorisation listed in Annex XIV are not used.

According to REACH Regulation chemical suppliers are required to inform downstream users regarding the presence of substances listed on the Candidate List of Substances of Very High Concern (SVHC) for Authorisation above the reporting limit. Based on this information Metsä Board products do not contain Substances of Very High Concern above the reporting limit of 0,1%. Additionally, no SVHC's have been detected in control tests conducted in a third party laboratory.

ALLERGENS

We hereby warrant that substances or products causing allergies or intolerances listed in Regulation (EU) No 1169/2011 Annex II and in the Food Allergen Labelling and Consumer Protection Act of 2004 (FALCPA, U.S.A.) are not used as raw materials in the manufacturing process of this product. This includes for example cereals, crustaceans, eggs, fish, peanuts, soybeans, milk, nuts, celery, mustard, sesame seeds, lupin and molluscs.

However, one of the raw materials may contain traces of wheat or barley. According to our risk assessment and analysis, the gluten content of the final product does not exceed 20 mg/kg. Gluten free labelling for food can be used if the gluten content does not exceed 20 ppm (= 20 mg/kg) according to "Commission Regulation (EC) No 41/2009 concerning the composition and labelling of foodstuffs suitable for people intolerant to gluten" and "Food Labeling; Gluten-Free Labeling of Foods - A Rule by the Food and Drug Administration on 08/05/2013 USA FDA".

MINERAL OIL (MOSH/MOAH)

This product is manufactured from fresh fibers and does not contain any printed recycled material. Mineral oils are not used as raw materials in the manufacturing of this product. All used production chemicals and additives are approved for food contact.

BIOCIDAL PRODUCTS

According to Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products, this product is not defined as a treated article.

Biocides are used in the manufacturing process to prevent harmful microbiological growth and to ensure the microbiological purity of the final product. The transfer of antimicrobial constituents from the final product is tested in a third party laboratory to ensure no antimicrobial effect.

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NANOMATERIALS

We hereby warrant that this product is not defined as a nanomaterial according to the Commission Recommendation on the definition of nanomaterial 2011/696/EU as amended. However, some of the additives that have commonly been used in pulp and paperboard production processes for centuries contain nanoscale particles. These particles occur naturally in nanoscale and their functional effect in the production process is not based on the nano properties. They are also not classified as dangerous and do not pose a risk to human health.

TOYS

This product complies with Directive 2009/48/EC on the safety of toys Annex II, Part III, point 13 migration limits for scraped-off toy materials.

Metsä Board products comply with the restrictions for Phthalates, Benzene and Azocolorants/Azodyes concerning toys set forth in REACH Regulation (EC) 1907/2006 Annex XVII on restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles. For additional information regarding REACH Regulation please refer to the REACH section of this document.

This product does not qualify as consumer or children's product according to Consumer Product Safety Improvement Act of 2008 (CPSIA). A subsequent amendment to the CPSIA, Pub. L. 112-28 § 2, 122 Stat. 273 (Aug. 12, 2011), specifically exempts ordinary books, paper-based printed materials, and materials similar to paper from the lead testing requirements. In addition, Consumer Product Safety Commission (CPSC) regulation 16 C.F.R. § 1500.91(d) specifically exempts paper-based materials from lead testing, so long as they have not been treated or adulterated in a manner that would cause them to come out of compliance. Manufactures and importers also are excused in *Notice of Requirements to Assess Conformity with the Limits on Phthalates in Children's Toys and Child Care Articles*, 76 Fed. Reg. 49,286, 49,288 n.2 (Aug. 10, 2011); from testing and certifying that there are no phthalates in materials that are known not to contain phthalates, including paper products (paper, paperboard, linerboard and medium, and pulp).

Other heavy metal limits apply to the surface coatings and substrates of children's toys intended for children 13 and under, as set to forth in Toy Safety Standard ASTM F963. As this product does not qualify as such, the limits for heavy metals do not apply. However, based on the compliance with Directive 2009/48/EC, the heavy metal content of this product is well below the limits set by CPSIA.

HIGH TEMPERATURE MIGRATION

As paperboard has no harmonized measures for food contact testing in the EU, Metsä Board paperboard products have been analysed for high temperature food contact conditions according to the Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food. Suitability for high temperature conditions has been tested according to overall migration test in food simulant, 30 minutes in 180 and 220 °C with test method EN 1186-13:2002 "Materials and articles in contact with foodstuffs. Plastics. Part 13: Test methods for overall migration at high temperatures".

Overall migration from samples is below the 10 mg/dm² limit determined in the Regulation (EU) No 10/2011 for plastic materials meaning the maximum permitted amount of non-volatile substances released from a material or article into food simulants is not exceeded at high temperature applications.

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These migration results apply only for unprinted paperboard and functional barrier is recommended at high temperature applications. It is the end users responsibility to verify the suitability of the product for designed food application and end use.

RISK MANAGEMENT

Metsä Board products are manufactured from fresh fibres and therefore there is less risk of non-intentionally added substances (NIAS) such as traces of printing inks or mineral oils. Metsä Board evaluates all used raw materials and conducts internal risk assessment based on the supplier information.

All products are regularly tested by independent third party laboratories for food contact suitability and for globally recognized substances of very high concern, such as heavy metals. Routine and more specialised analyses are done in an internal research centre, where also new testing methods are developed. Toxicological tests have also been conducted by a third party laboratory and no genotoxicity of Metsä Board paperboards has been observed.

Metsä Board performs worst case migration calculations for all products and conducts testing as necessary. For example for PE coated paperboards migration testing is conducted according to Commission Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food even though it is not mandatory for the final multi-material multi-layer materials and articles.

As paperboard has no harmonised measures for food contact testing in the EU, Metsä Board has additionally tested its paperboards for suitability for high temperature applications according to the Regulation (EU) No 10/2011. Based on the worst case calculations and test results, the migration of substances into food in applicable conditions is below the legal or recommended limit values for all Metsä Board paperboard products. Therefore the cumulative daily intake can also be estimated to be on an acceptable level.

Metsä Board systematically follows relevant global product safety concerns and reacts accordingly. Our personnel attends trainings regularly in order to maintain up-to-date knowledge on possible safety risks. Metsä Board follows the standardised risk management principles and has certified food management system ISO 22000.

PACKAGING AND PACKAGING WASTE

EU DIRECTIVE 94/62/EC

We hereby warrant this product is in compliance with the requirements of Directive 94/62/EC and its amendment 2004/12/EC. When used as packaging material this conformity is specified as following:

EN 13427 Requirements for the use of European standards in the field of packaging and packaging waste	The procedures and record keeping enabling this declaration are part of Metsä Board's ISO 9001 and ISO 14001 management systems
ISO 18601 General requirements for the use of ISO standards in the field of packaging and the environment	
EN 13428 Requirements specific to manufacturing and composition. Prevention by source reduction	During past few years Metsä Board has been able to reduce the weight of its products without compromising the important strength performance characteristics of the packaging. Reduction of the material weight is an important step towards the minimization of the packaging waste.
ISO 18602 Optimization of the packaging system	
CR 13695-1 Requirements for measuring and verifying the four heavy metals and other	Concentrations of four named heavy metals are clearly below the regulated limits.

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dangerous substances present in packaging and their release into the environment – Part 1: Requirements for measuring and verifying the four heavy metals present in packaging
CONEG CERTIFICATION / THE MODEL TOXICS IN PACKAGING LEGISLATION (USA)
CEN/TR 13695-2 Requirements for measuring and verifying the four heavy metals and other dangerous substances present in packaging and their release into the environment. Part 2: Requirements for measuring and verifying dangerous substances present in packaging, and their release into the environment.

Concentration of substances classified as hazardous is much less than 1 % of the product weight. Substances and mixtures classified as very* hazardous have not been used as raw materials in this product.

**Very hazardous means the following classes of the Global Harmonized System (GHS): Carcinogenicity (Cat. 1A, 1B and 2), Acute toxicity (Cat 1 or 2), Mutagenicity (Cat 1A, 1B and 2), Reproductive toxicity (Cat 1A, 1B and 2), Hazardous to the aquatic environment (Acute 1 or Chronic 1) and Hazardous to ozone layer Cat. 1.*
ISO 18602 Optimization of the packaging system
EN 13429 Reuse

Not applicable. Packaging made of this product is not foreseen to be refilled or used for the same purpose for which it was conceived.

**EN 13430 Requirements for packaging recoverable by material recycling
ISO 18604 Material recycling**

This product has been manufactured using fresh fibres and chemicals which are compatible with known, relevant and industrially available paper recycling technologies in the EU.

EN 13431 Requirements for packaging recoverable in the form of energy recovery, including specification of minimum inferior calorific value

This product is suitable for energy recovery, as it is composed of much more than 50 % of organic content.

ISO 18605 Energy recovery
**EN 13432 Requirements for packaging recoverable through composting and biodegradation. Test scheme and evaluation criteria for the final acceptance of packaging
ISO 18606 Organic recycling**

The industrial compostability according to EN 13432 and ISO 18606 is declared.

RECYCLABILITY (USA)

This product is capable of being recycled, whether as part of an industrial recycling program or curbside recycling available to consumers. The U.S. Federal Trade Commission, however, restricts claims of recyclability if recycling of a given material is not available to a “substantial majority of consumers or communities,” which means at least 60% of consumers or communities have access to recycling. Currently, 73% and 50% of U.S. communities have access to recycling programs for unbleached and bleached paperboard, respectively, that rate can vary by a variety of factors. Thus, recycling facilities for bleached paperboard may not exist in your area.

This product is made of fresh fibres originating from Northern European forests. The pulp types used are high brightness BCTMP (Bleached chemi-thermomechanical pulp), chemical pulp (Kraft) and in some cases mechanical pulp. Metsä Board produces BCTMP at Kaskinen and Joutseno mills, Finland, by using modern own-patented technology. The bleached chemical pulp is made in Metsä Group mills in Sweden and Finland.

The product specific compositions are listed in the Product composition table below. More information available in product specifications and paper profiles of each product.

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Product composition table

Product name	Brightness top %	BCTMP %	Chemical pulp %	Mechanical pulp %	Pigments and fillers %	Binders %	Moisture %
Avanta Prima	87	50	28		9	4	9
Carta Dedicata Fast	80	37	50		1	4	8
Carta Dedicata Fine	80	24	55		8	4	9
Carta Dedicata Firm	83	46	34		8	4	8
Carta Dedicata Fresh	80	28	59		1	3	9
Carta Elegata	89	46	29		12	4	9
Carta Integra	91	45	30		14	4	7
Carta Selecta	87		39	32	19	4	6
Carta Solida	91	45	30		14	4	7
Kemiart Brite	75		87		4	1	8
Kemiart Graph+	82-85		73		19	2	6
Kemiart Lite+	82		75		16	2	7
Kemiart Brite+	77		82		10	1	7
Modo Northern Light	90		80		10	2	8
Modo Northern Light Flexo	87	18	48		23	4	7
Modo Northern Light Litho	88	19	51		19	4	7
Simcote	84	18	25	34	10	5	8

Accordingly, Metsä Board recyclability claims are limited to the Metsä Board's products, and do not apply to any final package made from Metsä Board product. We recommend that our customers ensure they have adequate substantiation to support any claims of recyclability or other environmental performance with respect to their specific packaging configuration.

DISCLAIMER

The information provided in this statement applies only for the paperboard, barrier coated paperboard or pulp material as delivered by Metsä Board Corporation and may not substitute necessary end use testing. Metsä Board Corporation shall not be liable for any damage or injury resulting from misuse or uninstructed use of its products. This statement shall not be regarded as a warranty of fitness for particular purpose or end use. The end users shall have responsibility for verifying the suitability of the product for a particular application or end use.

The information given in this statement has been verified by Metsä Board Corporation at the date of its publication and we shall not be liable for any future changes in information, contents, processes, regulatory or legal requirements included in this statement.

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METSÄ BOARD CORPORATION

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