

The Organisation

UPM - Kymmene Corporation

Alvar Aallon katu 1
00100 Helsinki
Finland



has been assessed and its products certified as meeting the requirements of

Chain-of-Custody

The company was assessed against the following standards:
FSC-STD-40-004 V2-1 Standard for COC Certification – October 2011
FSC-STD-40-005 V2-1 Standard for Company Evaluation of FSC Controlled Wood – April 2007
FSC-STD-40-007 V2-0 Sourcing reclaimed materials – April 2011
FSC-STD-40-003 V1-0 Standard for Multi-site Certification of Chain of Custody Operations – June 2007

for the products detailed in the scope below

This certificate is valid from 21 July 2014 until 20 July 2019
Issue 5. Certified since July 2009
SGS Ref # CH12/1588

This is multi site scheme
Additional site details are listed on the subsequent page

Authorised by

SGS Société Générale de Surveillance SA Systems & Services Certification
Technoparkstrasse 1 8005 Zurich Switzerland
t +41 (0)44 445-16-80 f +41 (0)44 445-16-88 www.sgs.com



The mark of responsible forestry

Accredited
FSC-ACC-037

The validity of this certificate shall be verified on <http://info.fsc.org/>
For the full list of product groups covered by the certificate see <http://info.fsc.org/>
This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified [or FSC Controlled Wood]. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents

This certificate remains the property of SGS and shall be returned upon request.

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UPM - Kymmene Corporation

Chain-of-Custody



Issue 5
Detailed scope

Set 1:

Purchase of wood, pulp and paper (FSC 100%, FSC Mix, FSC Recycled, FSC Controlled Wood, reclaimed material), production and sale of pulp and papers (FSC Mix, FSC Recycled, FSC Controlled Wood), credit system and percentage system.

Set 2:

Purchase and sale of paper products (FSC Mix, FSC Recycled, FSC Controlled Wood), transfer system.

Additional facilities

Set 1:

UPM-Kymmene Austria GmbH, Fabriksplatz 1, 4662 Steyrermühl, Austria

UPM (China) Co., Ltd., Changshu Economic and Technological Development Zone, Jiangsu Province, P.R. China, 215536

UPM-Kymmene Corporation, Jämsänkосki, Tiilikantie 17, 42300 Jämsänkосki, Finland

UPM-Kymmene Corporation, Kaipola, Tehtaankatu 1, 42220 Kaipola, Finland

UPM-Kymmene Corporation, Kaukas, Kaukaantie 16, 53200 Lappeenranta, Finland

UPM-Kymmene Corporation, Kymi, Selluntie 1, 45700 Kuusankосki, Finland

UPM-Kymmene Corporation, Rauma, Tikkalantie 1, 26100 Rauma, Finland

UPM-Kymmene Corporation, Tervasaari, Tehtaankatu 7, 37600 Valkeakосki, Finland

UPM-Kymmene Corporation, Pietarsaari, Luodontie 149, 68600 Pietarsaari, Finland

UPM France S.A.S., Etablissement Chapelle Darblay, CD3, 76530 Grand-Couronne, France

UPM France S.A.S., Papeteries de Docelles, 1, rue du Grand Meix, 88460 Docelles, France



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UPM GmbH, Georg-Haindl-Strasse 4 , 86153 Augsburg, Germany

Nordland Papier GmbH, Nordlandallee 1, 26892 Dörpen, Germany

UPM GmbH, Friedrich-Haindl-Strasse 10, 86956 Schongau, Germany

UPM GmbH, Kuhheide1, 16303 Schwedt/Oder, Germany

UPM-Kymmene (UK) Ltd, Shotton Paper, Weighbridge Road, Shotton, Deeside,
Flintshire, CH5 2LL UK

UPM-Kymmene (UK) Ltd, Caledonian Paper, Meadowhead Road,
Irvine Ayrshire, KA11 5 AT UK

Blandin Paper Company, 115 First Street, SW Grand Rapids,
Minnesota 55744-3699, USA

Gebr. Lang GmbH Papierfabrik , Fabrikstrasse 4, 86833 Ettringen, Germany

Rhein Papier GmbH, Bertrams Jagdweg 12, 50354, Hürth, Germany

MD Papier GmbH / Plattling Service GmbH / Rhein Papier GmbH,
Nicolausstrasse 7, 94447 Plattling, Germany

Madison Paper Industries, 1 Main Street, Madison, Maine, 04950-0129, USA

UPM S.A., Ruta Puente Puerto Km 307, 65000 Fray Bentos, Uruguay

Set 2:

UPM Sales Oy, Alvar Aallon katu 1
P.O. Box 380, 00101 Helsinki, Finland

OOO UPM-Kymmene , Professor Popov Str. 37, 6th floor
197022 St. Petersburg, Russia

UPM Inc., 55 Shuman Boulevard, Suite 400, Naperville, Illinois 60563-8248, USA

UPM (China) Co. Ltd , 23F, Grand Gateway Tower 2 No. 3 Hongqiao Road,
Shanghai 200030, People's Republic of China

UPM Asia Pacific Pte Ltd, 350 Orchard Road
15-05/06 Shaw House, Singapore 238868

UPM-Kymmene Japan KK, MAR'S Minami-Aoyama 6F 5-9-19,
Minami Aoyama Minato-ku, Tokyo, Japan



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FSC-ACC-037



NEPCon hereby confirms that the Chain of Custody and Controlled Wood system of

Arctic Paper Kostrzyn S.A.

ul. Fabryczna 1
66-470 Kostrzyn
Poland

has been assessed and certified as meeting the requirements of
FSC-STD-40-003 V2-1; FSC-STD-40-004 V2-1; FSC-STD-50-001 V1-2

The certificate is valid from 07-12-2016 to 06-12-2021
Certificate version date: 06-12-2016

Scope of certificate

Certificate type: Single (with multiple sites) Chain of Custody and Controlled Wood

Certificate registration code

NC-COC-012351

NC-CW-012351

FSC License Code

FSC-C012880



Justinas Janulaitis
Operations Director
Filosoofi 31, Tartu
Estonia

Specific information regarding products and sites is listed in the appendix(es) of this certificate. The validity and exact scope covered by this certificate shall always be verified at www.info.fsc.org.

FSC™ A000535 | The mark of responsible forestry | www.ic.fsc.org

This certificate itself does not constitute evidence that particular product supplied by the certificate holder is FSC™ certified [or FSC Controlled Wood]. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents.

The physical printed certificate remains the property of NEPCon and shall be returned upon request.

**Annex A: Scope of Arctic Paper Kostrzyn S.A. FSC™ Chain of Custody
and Controlled Wood Certificate NC-COC-012351**

Product Type	Trade Name	Output FSC Claims
P1	Pulp	FSC Mix Credit; FSC Controlled Wood
P2.1	Copying, printing paper	FSC Mix Credit
P2.1.2	Uncoated paper	FSC Mix Credit

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**Annex B: Scope of Arctic Paper Kostrzyn S.A. FSC™ Chain of Custody
and Controlled Wood Certificate NC-COC-012351**

No	Site Name	Address	Sub-code
1	Arctic Paper S.A.	Jana Henryka Dąbrowskiego 334A 60-406 Poznań Poland	---

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Certificate

SQS herewith certifies that the company named below fulfils the FSC® standards with regard to Chain of Custody (COC). The company below is authorized by this SQS certificate to process FSC products which are subject to full and complete controls and which originate from forests that are managed in accordance with the principles and criteria of the Forest Stewardship Council® (FSC). This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified [or FSC Controlled Wood]. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents. A list or description of the certified products can be obtained from the company named below or from SQS. The validity of this certificate shall be verified on <http://info.fsc.org/>



The mark of responsible forestry

PAPYRUS 

Papyrus AB
Kronogårdsgatan 3
431 26 Mölndal
Sweden

Certified area

According to appendix

Certified products

Paper products

Normative base

FSC COC

Forest Stewardship Council – Chain of Custody
Standard reference: FSC-STD-40-003 (2.1)
FSC-STD-40-004 (2.1)

Certificate Code

SQS-COC-100158

FSC License Code

FSC® C004423

Scope(s) 29

Version FSC: December 15, 2011

Validity 18.03.2017 – 17.03.2022

Issue 18.03.2017

1996 Forest Stewardship Council A.C.

This certificate is the property of SQS.
All certificates and copies thereof must be
returned to SQS immediately on request.



X. Edelmann, President SQS



R. Glauser, CEO SQS



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Swiss Association for Quality and
Management Systems SQS
Bernstrasse 103, 3052 Zollikofen, Switzerland



Swiss Made



Central Function	Field of activity	Scope(s)	Norm / Revision	Reg. no.	Validity
Papyrus AB Kronogårdsgatan 3 SE-431 26 Mölndal Sweden	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC-100158	18.03.2017 17.03.2022

Locations	Field of activity	Scope(s)	Norm / Revision	Reg. no.	Validity
Papyrus Deutschland GmbH & Co KG Gehrstrasse 7-11 DE-76275 Ettlingen Germany	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-A	18.03.2017 17.03.2022
Papyrus Schweiz AG Zürcherstrasse 68 8800 Thalwil Switzerland	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-B	18.03.2017 17.03.2022
Papyrus S.r.l. Via P. Vassanelli, 32 IT-37012 Bussolengo-VR Italy	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-D	18.03.2017 17.03.2022
Papyrus Sp z o.o. Woloska 5 str PL-02-672 Warszawa Poland	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-E	18.03.2017 17.03.2022
Papyrus AS Sõpruse pst 145 EE-13417 Tallinn Estonia	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-F	18.03.2017 17.03.2022
Papyrus Hungária Zrt. Könyves Kálmán körút 11/c, HU-1097 Budapest Hungary	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-G	18.03.2017 17.03.2022
Papyrus Romania SRL Bdul. Timisoara Nr. 90 RO-061334 Bucuresti Romania	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-H	18.03.2017 17.03.2022
Papyrus Bohemia s.r.o. K Hrušovu 292/4 CZ-102 23 Praha 10 Czech Republic	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-J	18.03.2017 17.03.2022
Papyrus Groep Nederland bv Bijsterhuizen Noord 22-02 (P.O. Box 62 – 6500 AB Nijmegen) NL-6604 LD Wijchen Netherlands	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-L	18.03.2017 17.03.2022

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X. Edelmann, President SQS

R. Gläuser, CEO SQS



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Swiss Association for Quality and
Management Systems SQS
Bernstrasse 103, 3052 Zollikofen, Switzerland




Swiss Made



Locations	Field of activity	Scope(s)	Norm / Revision	Reg. no.	Validity
Papyrus Belgium NV/SA Bd International 55, b 33 BE-1070 Bruxelles Belgium	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-M	18.03.2017 17.03.2022
Papyrus SIA Dzelzavas iela 120s-13 LV-1021 Riga Latvia	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-N	18.03.2017 17.03.2022
Papyrus Supplies A/S Oldenburg Allé 1 DK-2630 Taastrup Denmark	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-O	18.03.2017 17.03.2022
Papyrus A/S Oldenburg Allé 1 DK-2630 Taastrup Denmark	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-P	18.03.2017 17.03.2022
Papyrus Supplies AB Kronogårdsgatan 3 SE-431 26 Mölndal Sweden	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-Q	18.03.2017 17.03.2022
Papyrus Sverige AB Kronogårdsgatan 3 SE-431 26 Mölndal Sweden	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-R	18.03.2017 17.03.2022
Papyrus Norge AS Søren Bulls vei 2 (P.O. Box Furuset 1001 Oslo) NO-1051 Oslo Norway	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-S	18.03.2017 17.03.2022
UAB Papyrus Lietuva R. Kalantos g. 59 LT-52304 Kaunas Lithuania	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-C	18.03.2017 17.03.2022
Papyrus Finland Oy Riihikuja 4 FI-01720 Vantaa Finland	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-U	18.03.2017 17.03.2022
Papyrus Finland Supplies Oy Riihikuja 4 FI-01720 Vantaa Finland	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-V	18.03.2017 17.03.2022

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The mark of responsible forestry

PAPYRUS 

Papyrus AB
Kronogårdsgatan 3
431 26 Mölndal
Sweden

Certified area

According to appendix

Certified products

Paper products

Normative base

FSC COC

Forest Stewardship Council – Chain of Custody
Standard reference: FSC-STD-40-003 (2.1)
FSC-STD-40-004 (2.1)

Certificate Code

SQS-COC-100158

FSC License Code

FSC® C004423

Scope(s) 29

Version FSC: December 15, 2011

Validity 18.03.2017 – 17.03.2022

Issue 18.03.2017

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Papyrus S.r.l. Via P. Vassanelli, 32 IT-37012 Bussolengo-VR Italy	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-D	18.03.2017 17.03.2022
Papyrus Sp z o.o. Woloska 5 str PL-02-672 Warszawa Poland	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-E	18.03.2017 17.03.2022
Papyrus AS Sõpruse pst 145 EE-13417 Tallinn Estonia	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-F	18.03.2017 17.03.2022
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Papyrus Romania SRL Bdul. Timisoara Nr. 90 RO-061334 Bucuresti Romania	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-H	18.03.2017 17.03.2022
Papyrus Bohemia s.r.o. K Hrušovu 292/4 CZ-102 23 Praha 10 Czech Republic	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-J	18.03.2017 17.03.2022
Papyrus Groep Nederland bv Bijsterhuizen Noord 22-02 (P.O. Box 62 – 6500 AB Nijmegen) NL-6604 LD Wijchen Netherlands	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-L	18.03.2017 17.03.2022

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Papyrus SIA Dzelzavas iela 120s-13 LV-1021 Riga Latvia	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-N	18.03.2017 17.03.2022
Papyrus Supplies A/S Oldenburg Allé 1 DK-2630 Taastrup Denmark	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-O	18.03.2017 17.03.2022
Papyrus A/S Oldenburg Allé 1 DK-2630 Taastrup Denmark	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-P	18.03.2017 17.03.2022
Papyrus Supplies AB Kronogårdsgatan 3 SE-431 26 Mölndal Sweden	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-Q	18.03.2017 17.03.2022
Papyrus Sverige AB Kronogårdsgatan 3 SE-431 26 Mölndal Sweden	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-R	18.03.2017 17.03.2022
Papyrus Norge AS Søren Bulls vei 2 (P.O. Box Furuset 1001 Oslo) NO-1051 Oslo Norway	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-S	18.03.2017 17.03.2022
UAB Papyrus Lietuva R. Kalantos g. 59 LT-52304 Kaunas Lithuania	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-C	18.03.2017 17.03.2022
Papyrus Finland Oy Riihikuja 4 FI-01720 Vantaa Finland	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-U	18.03.2017 17.03.2022
Papyrus Finland Supplies Oy Riihikuja 4 FI-01720 Vantaa Finland	Paper products	29	FSC COC FSC-ST-40-003 (2.1) FSC COC FSC-ST-40-004 (2.1)	SQS-COC 100158-V	18.03.2017 17.03.2022

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 Bernstrasse 103, 3052 Zollikofen, Switzerland


MGA NATURA 5250 sheet-fed offset printing inks ACRYLAC-MGA water-based overprint varnishes

FDA status

For sheet-fed offset printing inks and water-based overprint varnishes used in the manufacture of food packaging, European member companies of the **huber**group provide "Statements of Composition" that cover European legislation. These statements disclose the substances used or known to be present with the potential to migrate, including an indication as to whether they are restricted under applicable European regulations.

With regard to enquiries concerning the safety of printing inks according to the regulations of the U.S. Food and Drug Administration (FDA), the following information is provided for **MGA NATURA 5250** sheet-fed offset printing inks (process, CRS basic and special colour printing inks, sales code "P") and **ACRYLAC-MGA** water-based overprint varnishes intended for use on the non-food contact surface of food packaging made of paper and board.

1. FDA Regulation of printing inks and varnishes

Section 201(s) of the Food, Drug and Cosmetic Act (FDCA) defines "food additive" to include any substance that is *reasonably expected to become a component of food* under the intended conditions of use. U.S. regulations for food additives (direct and indirect) are set forth in 21 C.F.R. Parts 170-189. "Direct additives" are those which are added directly to the food to perform specific function and technical effect in the food. "Indirect additives" have no functional or technical effect in food but may reasonably be expected to become a component of food due to their migration from food-contact materials.

"Food additives" must be the subject of an explicit clearance in FDA's food additive regulations, except where such substances are "generally recognized as safe" (GRAS), or are otherwise the subject of an effective food contact notification (FCN) or prior sanctioned by FDA.

Printing inks or varnishes for printing on the non-food-contact surface of a given packaging material are regulated by the FDA in the event that such substances *are reasonably expected to become components of food*. Accordingly, manufacturers must ensure that the components of the printing inks do not migrate to the packaged food, as well as ensure the inks are used in accordance with good manufacturing practice (GMP) such that migration from exterior printing/varnishing, including set-off, will not impact the safety or organoleptic properties of the packaged food.¹

¹ 21 C.F.R. Section 174.5(a)(2) mandates that food packaging materials be of "suitable purity," which means that the packaging must be safe and must not alter the organoleptic properties of the food (e.g., taste, odor, etc.).

2. FDA Status of MGA NATURA 5250 sheet-fed offset printing inks ("5250" process inks, CRS basic inks, and special colour inks, sales code "P") and ACRYLAC-MGA water-based overprint varnishes

Member companies of the **hubergroup** offer and recommend **MGA NATURA 5250** sheet-fed offset printing inks and **ACRYLAC-MGA** water-based overprint varnishes for the manufacture of food packaging made of paper and board. These inks and varnishes should be used according to the information provided in the Technical Data Sheet, be correctly processed and dried, and the food packaging should be designed in such a way that there is no intended direct food contact with the printed/varnished surface, so as to keep migration of ink components to the packaged food to a minimum.

Migratable substances present in the inks and varnishes are indicated in the "Statement of Composition", enabling the marketer of the finished packaging to verify the compliance of the final printed material or packaging according to EU or FDA provisions. We should emphasize that the amount of invisible set-off and migration is dependent on the processing conditions and barrier properties of the substrate.

All migratable ingredients used in the formulation of MGA NATURA 5250 sheet-fed offset printing inks are covered by suitable FDA regulations. Migration testing using model prints designed to simulate commercial applications indicates that packaging printed with MGA NATURA 5250 sheet-fed offset printing inks and varnished with ACRYLAC-MGA water-based overprint varnishes, used in a manner consistent with the corresponding technical recommendations, can be expected to meet the above-noted FDA requirements.

Notwithstanding the above, it remains the responsibility of the finished packaging manufacturer to ensure that the printing inks and varnishes supplied by the **hubergroup** are used in accordance with FDA's food additive regulations and GMP.

Kirchheim, 29 November 2018

Contact: Dr Sebastian Gierisch
Product Safety **hubergroup** Europe
Tel. +49 (0)89 9003-444
E-mail: product-safety@hubergroup.com

MGA NATURA 5250 sheet-fed offset printing inks ACRYLAC-MGA water-based overprint varnishes

FDA status

For sheet-fed offset printing inks and water-based overprint varnishes used in the manufacture of food packaging, European member companies of the **huber**group provide "Statements of Composition" that cover European legislation. These statements disclose the substances used or known to be present with the potential to migrate, including an indication as to whether they are restricted under applicable European regulations.

With regard to enquiries concerning the safety of printing inks according to the regulations of the U.S. Food and Drug Administration (FDA), the following information is provided for **MGA NATURA 5250** sheet-fed offset printing inks (process, CRS basic and special colour printing inks, sales code "P") and **ACRYLAC-MGA** water-based overprint varnishes intended for use on the non-food contact surface of food packaging made of paper and board.

1. FDA Regulation of printing inks and varnishes

Section 201(s) of the Food, Drug and Cosmetic Act (FDCA) defines "food additive" to include any substance that is *reasonably expected to become a component of food* under the intended conditions of use. U.S. regulations for food additives (direct and indirect) are set forth in 21 C.F.R. Parts 170-189. "Direct additives" are those which are added directly to the food to perform specific function and technical effect in the food. "Indirect additives" have no functional or technical effect in food but may reasonably be expected to become a component of food due to their migration from food-contact materials.

"Food additives" must be the subject of an explicit clearance in FDA's food additive regulations, except where such substances are "generally recognized as safe" (GRAS), or are otherwise the subject of an effective food contact notification (FCN) or prior sanctioned by FDA.

Printing inks or varnishes for printing on the non-food-contact surface of a given packaging material are regulated by the FDA in the event that such substances *are reasonably expected to become components of food*. Accordingly, manufacturers must ensure that the components of the printing inks do not migrate to the packaged food, as well as ensure the inks are used in accordance with good manufacturing practice (GMP) such that migration from exterior printing/varnishing, including set-off, will not impact the safety or organoleptic properties of the packaged food.¹

¹ 21 C.F.R. Section 174.5(a)(2) mandates that food packaging materials be of "suitable purity," which means that the packaging must be safe and must not alter the organoleptic properties of the food (e.g., taste, odor, etc.).

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Notwithstanding the above, it remains the responsibility of the finished packaging manufacturer to ensure that the printing inks and varnishes supplied by the **hubergroup** are used in accordance with FDA's food additive regulations and GMP.

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RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/ onderneming

- **1.1 Productidentificatie**
- **Handelsnaam:** MGA NATURA MGA5150 process inks: Yellow 41MGA5150, Magenta 42MGA5150, Cyan 43MG5150, Black 49MGA5150
- **MSDS nummer:** 224.354
- **1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik**
Geen verdere relevante informatie verkrijgbaar.
- **Toepassing van de stof / van de bereiding** Drukinkten
- **1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad**
- **Fabrikant/leverancier:**
hubergroup Benelux B.V.

Bolderweg 33
1332 AZ Almere
T: +31(0) 36 549 26 01 / +32(0) 9 230 67 19
F: +31(0) 36 532 64 54 / +32(0) 9 231 75 57

- **inlichtingengevende sector:**
Product Safety hubergroup
Telefon: + 49 89-9003-220
Telefax: + 49 89-9003-500
E-mail: product-safety@hubergroup.com
- **1.4 Telefoonnummer voor noodgevallen:**
During general business hours: Product Safety Division, Extension 220 or 444
During general business hours: Product Safety Division, Extension 220 or 444

RUBRIEK 2: Identificatie van de gevaren

- **2.1 Indeling van de stof of het mengsel**
- **Indeling overeenkomstig Verordening (EG) nr. 1272/2008**
Het product is niet geclassificeerd volgens de CLP-verordening.
- **2.2 Etiketteringselementen**
- **Etikettering overeenkomstig Verordening (EG) nr. 1272/2008** vervalt
- **Gevarenpictogrammen** vervalt
- **Signaalwoord** vervalt
- **Gevarenaanduidingen** vervalt
- **2.3 Andere gevaren** Deze informatie wordt door de onderhavige veiligheidsinformatieblad.
- **Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.

RUBRIEK 3: Samenstelling en informatie over de bestanddelen

- **3.2 Chemische karakterisering: Mengsels**
- **Gevaarlijke bestanddelen:** Geen
- **aanvullende gegevens:**
De woordelijke inhoud van de opgegeven aanwijzingen inzake de mogelijke gevaren is te vinden in hoofdstuk 16.

RUBRIEK 4: Eerstehulpmaatregelen

- **4.1 Beschrijving van de eerstehulpmaatregelen**
- **Algemene informatie:** Bij twijfel of bij aanhoudende symptomen een arts raadplegen

(Vervolg op blz. 2)



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(Vervolg op blz. 1)

- **Na het inademen:** Frisse lucht toedienen.
- **na huidcontact:**
Verontreinigde en vochtige kleding direct uittrekken. Besmette huid grondig met water en zeep of een ander geschikt reinigingsmiddel schoonmaken. Geen oplosmiddelen of verdunners gebruiken.
- **Na oogcontact:**
Contactlenzen verwijderen. Minstens 10 minuten met schoon, vloeiend water spoelen terwijl de oogleden worden opgehouden. Raadpleeg een arts.
- **Na inslikken:** Geen braken opwekken. Raadpleeg een arts.
- **4.2 Belangrijkste acute en uitgestelde symptomen en effecten** Geen verdere relevante informatie verkrijgbaar.
- **4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling**
Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 5: Brandbestrijdingsmaatregelen

- **5.1 Blusmiddelen**
- **Geschikte blusmiddelen:** Schuim (alcoholbestendig), kooldioxide, poeder, watersproeistraal.
- **blusmiddelen die uit veiligheidsoogpunt niet geschikt zijn:** Krachtige waterstraal.
- **5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt**
Zo nodig geschikte ademhalingsapparatuur vereist.
Gesloten blik in de buurt van brand met waternevel koelen.
- **5.3 Advies voor brandweelieden**
- **speciale beschermende kleding:** Geen bijzondere maatregelen nodig.
- **Verdere gegevens:** Bluswater dient opgevangen te worden.

RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

- **6.1 Persoonlijke voorzorgsmaatregelen, beschermde uitrusting en noodprocedures** Ruimte goed ventileren.
- **6.2 Milieuvoorzorgsmaatregelen:**
Niet in het riool terecht laten komen. Bij vervuiling van open water of rioolwaterleidingen volgens de plaatselijke verordeningen contact met de desbetreffende, bevoegde instanties opnemen.
- **6.3 Insluitings- en reinigingsmethoden en -materiaal:**
Gemorst materiaal met een onbrandbaar absorberend middel (bijvoorbeeld: zand, grond, diatomee aarde, vermiculiet) indammen en ten behoeve van verwerking volgens de plaatselijke voorschriften in de daarvoor bestemde vaten verzamelen. Bij voorkeur reinigingsmiddel voor het reinigen gebruiken. Zo mogelijk geen oplosmiddelen gebruiken.
- **6.4 Verwijzing naar andere rubrieken**
Informatie inzake veilig gebruik - zie hoofdstuk 7.
Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.
Informatie inzake berging - zie hoofdstuk 13.

RUBRIEK 7: Hantering en opslag

- **7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel**
Contact met ogen en huid voorkomen. Damp niet inademen. Tijdens de werkzaamheden niet eten, drinken of roken. Voor persoonlijke bescherming zie sectie 8. Wettelijke voorschriften voor bescherming en veiligheid opvolgen. Overschrijding van de MAC-waarde (indien van toepassing) vermijden (zie Sectie 8).

(Vervolg op blz. 3)



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(Vervolg op blz. 2)

- **7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten**
- **Opslag:**
- **Eisen ten opzichte van opslagruimte en tanks:**
Blikken goed gesloten houden. Roken verboden.
Geopende blikken zorgvuldig sluiten en rechtop bewaren om lekkage te voorkomen.
- **Verdere inlichtingen over eisen m.b.t. de opslag:**
Steeds in vaten bewaren, welke met oorspronkelijke verpakking overeenkomen. Aanwijzingen op het etiket opvolgen.
Op een droge en goed geventileerde plaats opslaan. Tegen warmte en direct zonlicht beschermen. Opslag overeenkomstig nationale voorschriften.
- **7.3 Specifiek eindgebruik** Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

- **Aanvullende gegevens m.b.t. de inrichting van technische installaties:**
Indien van toepassing dienen technische maatregelen getroffen te worden om de grenswaarden voor de werkplek niet te overschrijden. Dit kan door een goede ventilatie of door lokale afzuiging.
- **8.1 Controleparameters**
- **Bestanddelen met grenswaarden die m.b.t. de arbeidsruimte in acht genomen moeten worden:**
De waardes zijn, indien aangegeven, genomen van de geldige lijsten van fabricatie.
- **8.2 Maatregelen ter beheersing van blootstelling**
- **Persoonlijke beschermingsvoorzieningen:**
- **Ademhalingsbescherming:** Bij goede ventilatie niet noodzakelijk.
- **Handbescherming:**
Bij langer of herhaaldelijk contact handschoenen gebruiken.
Beschermingscremes kunnen blootgestelde huid beschermen, maar dienen echter niet gebruikt te worden wanneer de huid al met het product in contact gekomen is.
Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.
- **Handschoenmateriaal**
De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant. Aangezien het product uit meerdere stoffen is samengesteld, is de duurzaamheid van de handschoenmaterialen niet vooraf berekenbaar en moet derhalve vóór het gebruik worden getest.
- **Doordringingstijd van het handschoenmateriaal**
De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.
- **Oogbescherming:** Ter bescherming tegen vloeistofspatten een beschermbril dragen.
- **Lichaamsbescherming:**
Werkkleding dient niet uit textiel te bestaan, die in geval van brand een gevaarlijk smeltgedrag vertoont.
Na contact met de huid grondig wassen.

* RUBRIEK 9: Fysische en chemische eigenschappen

- **9.1 Informatie over fysische en chemische basiseigenschappen**
- **Algemene gegevens**
- **Voorkomen:**
- **Vorm:** Solid according ADR Annex 2.3.4 or ASTM D 4359-90
- **Kleur:** volgens productbenaming
- **Geur:** Karakteristiek
- **Geurdrempelwaarde:** Niet bepaald.

(Vervolg op blz. 4)



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(Vervolg op blz. 3)

· pH-waarde:	Niet bepaald.
· Toestandsverandering	
Smelt-/vriespunt:	niet bepaald
· Vlampunt:	>100 °C
· Ontvlambaarheid (vast, gas):	Niet bruikbaar.
· Ontstekingsstemperatuur:	
Ontledingstemperatuur:	Niet bepaald.
· Zelfontbrandingstemperatuur:	Niet bepaald.
· Ontploffingseigenschappen:	Niet bepaald.
· Ontploffingsgrenzen:	
onderste:	Niet bepaald.
bovenste:	Niet bepaald.
· Dampspanning:	Niet bepaald.
Dichtheid (ca. waarde) bij 20 °C:	1,05 g/cm ³
· Relatieve dichtheid	Niet bepaald.
· Dampdichtheid	Niet bepaald.
· Verdampingssnelheid	Niet bepaald.
· Oplosbaarheid in/mengbaarheid met:	
Water:	Niet of gedeeltelijk mengbaar
· Verdelingscoëfficiënt: n-octanol/water:	Niet bepaald.
· Viscositeit	
dynamisch:	Niet bepaald.
kinematisch:	Niet bepaald.
Organisch oplosmiddel:	< 0,06 %
Water:	< 0,06 %
· 9.2 Overige informatie	Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 10: Stabiliteit en reactiviteit

- **10.1 Reactiviteit** Geen verdere relevante informatie verkrijgbaar.
- **10.2 Chemische stabiliteit** Geen verdere relevante informatie verkrijgbaar.
- **10.3 Thermische ontbinding / te vermijden omstandigheden:**
Stabiel bij toepassing van de aanbevolen voorschriften voor opslag en hantering (zie punt 7).
- **10.4 Te vermijden omstandigheden** Geen verdere relevante informatie verkrijgbaar.
- **10.5 Chemisch op elkaar inwerkende materialen:**
Weghouden van oxidatiemiddelen en sterke zuren of alkalische materialen, om exotherme reacties te voorkomen.
- **10.6 Gevaarlijke ontledingsproducten:**
Bij hoge temperaturen kunnen gevaarlijke ontledingsproducten ontstaan, zoals bv.: kooldioxide, koolmonoxide, rook.

RUBRIEK 11: Toxicologische informatie

Het mengsel is ingedeeld volgens de criteria van de CLP-verordening (EG) nr 1272/2008 en geclassificeerd voor de toxicologische risico's. Herhaald of langdurig contact met het preparaat kan ontvetting van de huid veroorzaken wat leidt tot een uitgedroogde huid. Het product kan door de huid opgenomen worden. Vloeistofspatten in de ogen kunnen irritaties en herstelbare schade veroorzaken.

(Vervolg op blz. 5)



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(Vervolg op blz. 4)

- **11.1 Informatie over toxicologische effecten**
- **Acute toxiciteit** Geen gegevens bekend
- **Huidcorrosie/-irritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Ernstig oogletsel/oogirritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Sensibilisatie van de luchtwegen/de huid**
Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)**
- **Mutageniteit in geslachtscellen** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Kankerverwekkendheid** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Giftigheid voor de voortplanting** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij eenmalige blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij herhaalde blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Gevaar bij inademing** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

RUBRIEK 12: Ecologische informatie

Het product mag niet in het riool, water of bodem geraken.

- **12.1 Toxiciteit**
- **Aquatische toxiciteit:** Geen verdere relevante informatie verkrijgbaar.
- **12.2 Persistentie en afbreekbaarheid** Geen verdere relevante informatie verkrijgbaar.
- **12.3 Bioaccumulatie** Geen verdere relevante informatie verkrijgbaar.
- **12.4 Mobiliteit in de bodem** Geen verdere relevante informatie verkrijgbaar.
- **Verdere ecologische informatie:**
- **Algemene informatie:** Waterbezwaarlijkheid (NL): B(4) Weinig schadelijk voor in water levende organismen
- **12.5 Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.
- **12.6 Andere schadelijke effecten** Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 13: Instructies voor verwijdering

- **13.1 Afvalverwerkingsmethoden**
- **Aanbevelingen:** Mag niet in de riolering komen.
- **Europese afvalcatalogus** niet onder 08 03 12 vallend inktafval
- **Niet gereinigde verpakkingen:** Afval
- **Aanbeveling:**
Lege blikken kunnen met vuilnis meegegeven worden of gerecycleerd worden.
Niet geheel geleegde blikken en inktresten zijn chemisch afval.

RUBRIEK 14: Informatie met betrekking tot het vervoer

Product voldoet niet aan de transportvoorschriften voor gevaargoed (zoals ADR/RID enz.).

- **14.1 VN-nummer**
- **ADR, ADN, IMDG, IATA** vervalt
- **14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN**
- **ADR, ADN, IMDG, IATA** vervalt

(Vervolg op blz. 6)



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(Vervolg op blz. 5)

- **14.3 Transportgevarenklasse(n)**
- **ADR, ADN, IMDG, IATA**
- **klasse** vervalt
- **14.4 Verpakkingsgroep:**
- **ADR, IMDG, IATA** vervalt
- **14.5 Milieugevaren:**
- **Marine pollutant:** Neen
- **14.6 Bijzondere voorzorgen voor de gebruiker** Niet bruikbaar.
- **14.7 Vervoer in bulk overeenkomstig bijlage II bij
Marpol en de IBC-code** Niet bruikbaar.
- **VN "Model Regulation":** vervalt

RUBRIEK 15: Regelgeving

- **15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel**
- **SZW-lijst van kankerverwekkende stoffen**
geen der bestanddelen staat op de lijst.
- **SZW-lijst van mutagene stoffen**
geen der bestanddelen staat op de lijst.
- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid**
geen der bestanddelen staat op de lijst.
- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling**
geen der bestanddelen staat op de lijst.
- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding**
geen der bestanddelen staat op de lijst.
- **Richtlijn 2012/18/EU**
- **Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I** geen der bestanddelen staat op de lijst.
- **Nationale voorschriften:**
- **VOC Content EU:** 0,00 %
- **Gevaarklasse v. water:**
Waterbezwaarlijkheid (NL): B(4) Weinig schadelijk voor in water levende organismen
WGK 1 (D) (Zelfclassificatie): weinig gevaarlijk voor water.
- **15.2 Chemischeveiligheidsbeoordeling:** Een chemische veiligheidsbeoordeling is niet uitgevoerd.

RUBRIEK 16: Overige informatie

De gegevens in dit veiligheidsinformatieblad stemmen overeen met de huidige stand van onze kennis en voldoen aan de nationale en de EU-wetgeving. Wij hebben echter geen zicht op de arbeidscondities van de gebruiker. Het is altijd de verantwoordelijkheid van de gebruiker om de noodzakelijke stappen te ondernemen om aan de lokale regel- en wetgeving te voldoen. De gegevens in dit veiligheidsinformatieblad beschrijven de veiligheidsvoorschriften van ons product en doen geen toezegging over de producteigenschappen

- **Afkortingen en acroniemen:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances

(Vervolg op blz. 7)



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Versienummer 2

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**Handelsnaam: MGA NATURA MGA5150 process inks: Yellow 41MGA5150,
Magenta 42MGA5150, Cyan 43MG5150, Black 49MGA5150**

(Vervolg op blz. 6)

CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

· * **Gegevens die ten opzichte van de voorgaande versie zijn veranderd**

– CONFIDENTIAL INFORMATION –

Statement of Composition

of the sheet-fed offset printing inks

MGA[®] NATURA

- **MGA[®] NATURA 5250 Process printing inks**
(sales code xxMGA5250)
- **MGA[®] NATURA CRSmax Basic printing inks**
(sales code xxMGAyyyyP)
- **MGA[®] NATURA Special colour printing inks**
(sales code xxxxxxP)

**used in the manufacture of food packaging
made of paper and board**

Regulation (EC) No 1935/2004 requires that materials and articles which, in their finished state, are intended to be brought into contact with foodstuffs or which are brought into contact with foodstuffs, must not transfer any components to the packed foodstuff in quantities which could endanger human health, or bring about an unacceptable change in the composition or deterioration in organoleptic properties.

This means that the manufacturer of the finished article and the filler have the legal responsibility to ensure that the food packaging is fit for its intended purpose.

Provided that our products cited above are used in accordance with the information given in the Technical Data Sheet and correctly processed, and provided that the food packaging is designed in a way that there is no intended direct food contact with the print, we hereby confirm that our products will in principle allow compliance of the final product with Regulation (EC) No 1935/2004.

1. The products cited above are manufactured in accordance with the EuPIA "Good Manufacturing Practices (GMP) – Printing Inks for Food Contact Materials" (March 2016). The manufacturing location is certified in accordance with ISO 9001.
2. The products cited above are compliant with section 12 ("Druckfarben" – printing inks) of the Swiss Ordinance on Materials and Articles In Contact with Food (SR 817.023.21), version applicable from 1 May 2017.
3. Based on information provided by raw material suppliers, printed packaging manufactured using the products cited above will contain the following substances:

Substances used or known to be present in the dried ink with the potential to migrate, including indication whether the substances are restricted under the scope of the Plastics Regulation (EU) No 10/2011, the Swiss Ordinance 817.023.21 Annex 2 or 10, or listed in the "Provisional List of Additives used in Plastics", or listed as a food additive in Regulation (EC) No 1333/2008 or 1334/2008:

CAS No	PM Ref No	FCM No	Name	Restrictions and specific migration limits (SML) in [mg/kg]		On Provisional List of Additives used in Plastics	Regulation (EC) No 1333/2008 1334/2008	Maximum amount in the dried ink film in [%]	Comments
				Regulation (EU) No 10/2011	Swiss Ordinance 817.023.021				
	30610	9	acids, C ₂ -C ₂₄ , aliphatic, linear, mono-carboxylic from natural oils and fats, and their mono-, di- and triglycerol esters	(60)	(60)			20	
8001-22-7	24520	524	soybean oil	(60)	(60)			40	
9002-88-4	80000	549	polyethylene wax	(60)	(60)			2	
73138-82-6	24070 83610	741	resin acids and rosin acids	(60)	(60)			(traces)	
	31335	878	acids, fatty (C ₈ -C ₂₂) from animal or vegetable fats and oils, esters with branched alcohols, aliphatic, monohydric, saturated, primary (C ₃ -C ₂₂)	(60)	(60)			1	
	31336	879	acids, fatty (C ₈ -C ₂₂) from animal or vegetable fats and oils, esters with alcohols, linear, aliphatic, monohydric, saturated, primary (C ₁ -C ₂₂)	(60)	(60)			30	
	31348	880	acids, fatty (C ₈ -C ₂₂), esters with pentaerythritol	(60)	(60)			1	
1948-33-0			tert-butyl-hydroquinone (TBHQ)		42		E 319	0.2	

(60) = substance listed without specific restriction, overall migration limit (OML) applies

The sum of substances under FCM No 9, 524, 878, 879 and 880 is <60%.

- end of table -

Primary Aromatic Amines (PAA) with Restrictions

Primary Aromatic Amines¹ with restrictions in Annex II (2) of the Plastics Regulation (EU) No 10/2011 are not used as intentionally added ingredients, but may possibly be present as unavoidable trace impurities in pigments used in the manufacture of the inks.

List of PAA that may, according to WCC² using information from the suppliers of pigments used in the manufacture of the inks, potentially exceed the detection limit of 0.01 mg/kg food (expressed as aniline):

	CAS No
3-Amino-4-methoxybenzaniisanilid	120-35-4
2-amino-4-methyl-5-chloro-benzenesulfonic acid	88-53-9
Aniline	62-53-3
o-Anisidine	90-04-0
Benzenesulfonic acid, 2-amino-4-chloro-5-methyl-	88-51-7
5-Chloro-2-methoxyaniline	95-03-4
5-Chloro-2-methylaniline	95-79-4
4-Chloro-2-nitroaniline	89-63-4
2,5-Dichloroaniline	95-82-9
3,3'-Dichlorobenzidine	91-94-1
2,5-Dimethoxy-4-chloroaniline	6358-64-1
2,4-Dimethylaniline	95-68-1
2-Methoxy-4-nitroaniline	97-52-9
4-Nitro-1,2-phenylenediamine	99-56-9
4-Nitro-o-toluidine	99-52-5
1,2-Phenylenediamine	95-54-5
1,4-Phenylenediamine	106-50-3
o-Toluidine	95-53-4
p-Toluidine-o-sulfonic acid	118-88-7
2,4,5-Trichloroaniline	636-30-6

Migration testing of model samples using the methods described in the Plastics Regulation (EU) No 10/2011 indicates that PAA covered by Annex II (2) to the Plastics Regulation are not released above the detection limit as specified in the Plastics Regulation³.

Metals with Restrictions

The product may contain substances with restrictions listed in Annex II (1) to the Plastics Regulation (EU) No 10/2011. Such substances are shown in the data table only if the migration of these substances from the final article could exceed the limits specified in the Plastics Regulation⁵.

¹ Note for Caution: in applications where higher temperatures are applied (e.g. such as retort) PAA may be formed due to partial decomposition of the pigments. In case the printed packaging to be used in such applications, the printer shall inform his **huber**group contact who may recommend specific inks and supply specific information on request.

² Worst Case Calculation has been based on the EU cube model, assuming that the amount of wet offset ink used is 2 g per m².

³ As stated in the Technical Information sheet, MGA NATURA printing inks are not recommended for the manufacture of articles where the printed surface is intended to be in direct contact with food, or can be reasonably expected to come in direct contact with food, such as napkins, placemats, and bakery bags, or other articles where the ink is printed on paper or board and where analyses are performed which are significantly deviating from the methods described in the Plastics Regulation (EU) No 10/2011 (e.g. extraction method with cold water).

This information is provided to allow other members of the packaging chain to assess compliance in regard to the Framework Regulation (EC) No 1935/2004, and/or the Plastics Regulation (EU) No 10/2011 and/or Swiss Ordinance 817.023.21.

The Information may only be used for this purpose.

This document must be treated as confidential and must not be transmitted to third parties without prior consent.

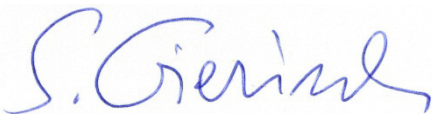
4. On request and following the signing of a non-disclosure agreement, we will fully disclose to analytical institutes the formulation of our products for the purpose of conducting compliance testing on the final printed material or packaging.

The information contained herein is based upon data believed to be up-to-date and correct at the time of writing. It is provided to our customers (and/or analytical contractors) in order to enable them to comply with all applicable health and safety laws, regulations and orders. In particular, customers are under an obligation to carry out a risk assessment under relevant Good Manufacturing Practices (GMP) in line with EU food contact legislation and as a result take adequate risk management measures to protect food consumers.

Since the application and conditions of use are beyond our control, the information provided does not represent a guarantee of any kind for the properties or conformity of the final printed product. The product's performance and its suitability for the customer's purpose depend on the particular conditions of use and the material being printed. We recommend that customers satisfy themselves that each product meets their requirements in all respects before commencing a print run. There is no implied guarantee of merchantability or fitness for purpose of the product or products described herein.

Kirchheim, 16 November 2018

MHM HOLDING GmbH

A handwritten signature in blue ink, appearing to read "S. Gierisch".

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MGA[®] NATURA 5250

The special process series for organoleptically neutral print products - low migration

Sheet-fed offset inks for printing food packaging shall not have any adverse effect on either the odour or the taste of the package contents. The development of a new, special vehicle and the use of specially selected solvents, raw materials and production methods has enabled us to create low migration, low-odour¹ sheet-fed offset inks.

Legislators – and, as a consequence, many manufacturers for branded goods – are increasingly turning their attention to printing inks and coatings for manufacturing food packaging, in particular with respect to their safe usage and application and the chemical substances employed in them. The **huber**group has stood up this challenge and clearly demonstrated how aware it is of its responsibilities from the very beginning, and is making every effort to ensure its products comply with the legal requirements by utilising the latest technological advances.

The **MGA NATURA** ink series is formulated mineral oil-free.

Basic requirements for food packaging

Food packages shall not transfer any substances to the packed foodstuff that

- endanger human health,
- influence the odour or taste of the packed food,
- influence the composition or appearance of the packed food.

Sheet-fed offset printing inks that are used in the manufacture of food packaging in which the packaged food is in direct contact with the unprinted inside of the packaging must therefore be low-migration inks and have no adverse effect on either the odour or the taste of the packaged foodstuffs.

MGA NATURA is a low migration and low-odour offset ink series for printing of food contact materials. The inks are formulated mineral oil free and do not contain any drier to support drying by oxidation.

The inks are designed, formulated and manufactured, and the raw materials selected according to the EuPIA-GMP "Printing Inks for Food Contact Materials". All ingredients are listed in annex 2 or 10 of the Swiss Ordinance on materials and articles in contact with food (SR 817.023.21). The binder system of MGA NATURA is based on special fatty acid esters which are approved for food contact. The ink series is recommended to produce food packaging which is compliant to Regulation (EC) 1935/2004.

The manufacturer of the packaging has to do a risk assessment and appropriate quality control to ensure that any migration to the packed foodstuff will not exceed legal limits. Information on substances used or known to be present with the potential to migrate, including possible restrictions, is provided in the respective "Statement of Composition", to allow members of the packaging chain to assess compliance of the printed packaging with the Framework Regulation (EC) No. 1935/2004 and/or Swiss Ordinance 817.023.21.

¹ The term „low-odour“ refers to prints that have been made with these inks

Colours available

Process inks

MGA NATURA		Echtheiten nach ISO 2836 / 12040				
		Light WS	Alcohol	Solvent mixture	Alkali	Drying/Setting
MGA NATURA Yellow	41MGA5250	5	+	+	+	by setting only
MGA NATURA Magenta	42MGA5250	5	+	+	-	by setting only
MGA NATURA Cyan	43MGA5250	8	+	+	+	by setting only
MGA NATURA Black	49MGA5250	8	+	+	+	by setting only

Spot Colours

In addition to the process colours, we can also formulate any shade you would like on the basis of **MGA NATURA 5250**.

Properties

- Sheet-fed offset printing ink series for printing the non-food contact surface of food packaging made of paper and board
- Printing ink for food contact materials (FCM ink) according to the EuPIA definition
- Overall migration < 10 mg/dm²
- Organoleptic assessment of printed products produces excellent results („Robinson test“ EN 1230 Part 1 and Part 2)
- Allows printed food packaging to meet the requirements of Regulation (EC) No 1935/2004 as well as of US FDA provisions for food contact materials
- For articles intended to be filled, treated or stored for a longer period of time at higher temperatures (more than 70 °C), we recommend special inks of our MGA CORONA series
- Stable ink/water balance on the press
- Fast setting speed
- The fact that the inks do not dry by oxidation means that no substances are generated which are organoleptically objectionable, such as short-chain aldehydes. Printed products made using MGA NATURA inks therefore also have low hexanal content
- Formulated mineral oil-free

Technical application

MGA NATURA inks have very good, trouble-free printing characteristics. Since they do not dry by oxidation, finishing with water-based coating is essential. Without coating, an adequate degree of rub resistance will not be obtained.

ACRYLAC MGA water-based overprint varnishes have been developed to meet the requirements of the production of food packaging printed with MGA NATURA inks. The same is true for MGA fount concentrates and printing auxiliaries.

MGA NATURA inks can be used in a similar way to conventional inks and are suitable for use in all sheet-fed offset presses and on all absorbent stocks. The applied single film thickness should not exceed 2 g/m²

Application instructions

Fount solution delivery and composition

Delivery of the fount solution on the press must be kept to an absolute minimum – particularly when the level of ink application is low – in order to prevent excessive emulsification and poor coating quality associated with this. The isopropanol concentration in the fount solution, when using MGA COMBIFIX 8060, should not exceed 10 % at a pH value of 5.0 - 5.4.

The **huber**group has developed fount concentrates for use specifically with these products:

- MGA COMBIFIX 8060 (for printing with IPA)
- MGA SUBSTIFIX 8360 (for printing without IPA)

ACRYLAC MGA water-based overprint varnishes

The following water-based overprint varnishes have been developed specifically for finishing MGA NATURA inks:

- Glossy and rub-resistant coating for single-sided coating: **ACRYLAC MGA Gloss S 58MGA1300**
- Wet-blocking-resistant and rub-resistant coating: **ACRYLAC MGA Gloss 58MGA1000**

If required, other ACRYLAC MGA types with additional special properties can be supplied.

Printing auxiliaries / Ink mixtures

To reduce ink tack, use only **MGA NATURA Print Oil 10MGA1405N** or **MGA NATURA Thioxprint 10MGA9998N**. Standard printing oils, paste reducers or the like shall not be used, under no circumstances.

MGA NATURA inks shall only be mixed with other MGA inks. Driers or drying accelerators shall not be added, under no circumstances, because this would lead to the generation of strong-smelling decomposition products.

Post-print finishing

The waiting time before the print sheets can be further processed is similar to that for conventional inks. It depends on the quality of the substrate. Tests should be carried out in specific cases prior to beginning a production run.

Roller treatment / Wash-up

Due to the negative effect on printed packages with respect to odour and taste, the press rollers shall not be sprayed with ANTISKIN 10T1200 or INKFIT 10T3303. After washing the rollers, leave them to dry well.

Classification


According to the CLP Regulation: none

According to the Regulation of Flammable Liquids: none

Material Safety Data Sheet available on request. Please refer to the contact of your local supplier.



PRODUCT DATA SHEET

Product specifications		
Omschrijving	Placemat	
Afmetingen	300 x 420 mm	
Gewicht	10 gr.	
Materiaal	Offset 80 gr.	
Bedrukking	Voedinggeschikte geurloze inkt	

Packaging specifications			
Verpakking	Aantal	Netto gewicht	Brutto gewicht
Tray	500 st.	5,04 kg	5,15 kg
Karton 428x318x213 mm	4 x 500 st.	20,16 kg	21,01 kg
Palet	30 kartons	+/- 605 kg	+/- 650 kg
Afmetingen palet BxLxH	80 x 120 x 136 cm		

Omschrijving	BestelNr	EAN 500st	EAN 4x500st	Art.nr.	PMS
Placemat wit	P100	5425033900281	5425033900274	0125	10% Black
Placemat zwart	P101	5425033900045	5425033900038	0114	Black
Placemat lime	P102	5425033900168	5425033900151	0117	388
Placemat aqua	P103	5425033900144	5425033900137	0581	306
Placemat donker blauw	P104	5425033900106	5425033900090	0118	295
Placemat fuchsia	P105	5425033901066	5425033900311	0975	239
Placemat bordeaux	P106	5425033900205	5425033900199	0115	1805
Placemat rood	P107	5425033900212	5425033900212	0124	185
Placemat terracotta	P108	5425033900267	5425033900250	0121	7413
Placemat goudgeel	P109	5425033900243	5425033900236	0120	108
Placemat ivoor	P110	5425033900182	5425033900175	0116	7499
Placemat room	P111	5425033900861	5425033900854	0896	7507
Placemat paars	P112	5425033904241	5425033904258	1526	2665
Placemat kraft	P113	5425033900083	5425033900076	0123	728
Placemat chocolade bruin	P114	5425033900069	5425033900052	0122	483
Placemat bestek motief	P115	5425033900366	5425033900359	0786	7426
Placemat donker groen	P116	5425033904388	5425033900113	0119	357

Placemat zwart-lime	P200	5425033901530	5425033901547	1206	388
Placemat zwart-oranje	P201	5425033901158	5425033901165	1061	021
Placemat zwart-aqua	P202	5425033901677	5425033901684	1229	306
Placemat zwart-rood	P203	5425033901585	5425033901592	1211	185
Placemat grijs-blauw	P204	5425033901172	5425033901189	1063	423/ 287

Placemat italiaans A3	P300	5425033900342	5425033900335		Q
Placemat friet A3	P301	5425033900403	5425033900397		Q
Placemat mossel A3	P302	5425033902063	5425033902018		Q
Placemat piramide A3	P303	5425033902070	5425033902025		Q
Placemat Egypte A3	P304	5425033902087	5425033902032		Q