

Stora Enso Division Packaging Materials, Beihai Mill **Customer Information on used chemical compounds in the production of paperboard**

For the purpose of achieving high chemical and microbiological purity Beihai Mill use only fresh and virgin fibres and food contact approved chemical additives. In addition, all used chemical additives comply with German BfR Recommendation XXXVI and/or US FDA 21 C.F.R Regulation. The pulps are elementary chlorine free (ECF).

Detailed information regarding food contact compliance can be found in the product specific Declaration of Compliance (DoC).

List of chemical substances

We confirm that based on information from our chemical additive suppliers and upon our current knowledge substances listed below are not used as raw material or intentionally added* in the production of paperboard at Stora Enso Division Packaging Materials, Beihai Mill.

Chemical substance	CAS-number
Acetone	67-64-1
Alkylphenols and alkylphenoethoxylates	644-35-9, 621-27-2, 645-56-7, 98-54-4, 88-18-6, 89-72-5, 128-39-2, 68908-55-4, 1879-09-0, 80-46-6, 120-95-6, 1987-50-4, 72624-02-3, 27193-28-8, 140-66-9, 25154-52-3, 104-40-5, 84852-15-3, 11066-49-2, 104-43-8, 27193-86-8, 121158-58-5, 95-48-7, 108-39-4, 106-44-5, 1319-77-3, 123-07-9, 90-00-6, 9016-45-9, 127087-87-0, 37340-60-6, 68412-53-3
Alkanes C10-C13 (short-chain chlorinated paraffins) (SCCPs)	70776-03-3
Anthraquinone	84-65-1
Antimony trioxide	1309-64-4
Antimony tris ethylene glycolate	29736-75-2
Asbestos	
Aziridine	151-56-4
Azo dyes restricted in BfR XXXVI	
Azocarbonamide	123-77-3
Benzalkonium chloride (BAC)	63449-41-2
Bisphenols (Bisphenol A, Bisphenol AP, Bisphenol AF, Bisphenol B, Bisphenol BP, Bisphenol C, Bisphenol E, Bisphenol F, Bisphenol G, Bisphenol M, Bisphenol S, Bisphenol P, Bisphenol PH, Bisphenol TMC, Bisphenol Z)	80-05-7, 1571-75-1, 1478-61-1, 77-40-7, 1844-01-5, 79-97-0, 2081-08-5, 620-92-8, 127-54-8, 13595-25-0, 80-09-1, 2167-51-3, 24038-68-4, 129188-99-4, 843-55-0
Benzene	71-43-2
Benzophenone derivatives	117-99-7, 132020-57-0, 1137-42-4, 90-93-7
Bis(2-ethylhexyl) adipate (DEHA)	103-23-1
1-Butanol	71-36-3
n-Butylacetate	123-86-4
Chlorinated Aliphatic compounds	56-23-5, 79-34-5, 630-20-6, 76-01-7, 67-66-3, 79-00-5, 73-35-4, 71-55-6
Cyanuric acid	108-80-5

4,4'Diaminodiphenylmethane (DMA)	101-77-9
Dimethylfumarate (DMF)	624-49-7
Didecylidimethylammonium chloride (DDAC)	7173-51-5
Epoxidized soybean oil (ESBO)	8013-07-8
Epoxy derivates according to EC 1895/2005 (BADGE, BFDGE and NOGE)	1675-54-3, 39817-09-9
Ethylbenzene	100-41-4
2-ethylhexanoic acid	149-57-5
Flame retardants (e.g. HBCD, HBCDD, PBB, PBDE, DecaBDE)	
Glyoxal	107-22-2
Halogens	7782-41-4, 7726-95-6, 7553-56-2
Hexabromocyclododecane (HBCDD)	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8
Hexachlorobenzene (HCB)	118-74-1
Hexachlorobutadiene (HCBD)	87-68-3
Hydroquinone	123-31-9
Linear Alkylbenzenes, defined as benzene with linear alkyl (C10-C13) chain	67774-74-7
Melamine	108-78-1
Methanol	67-56-1
1-Methoxy-2-propanol	107-98-2
Methylethylketone	78-93-3
Michler's Ketone	90-94-8
Natural latex	
Phenol, isopropylated phosphate (3:1) (PIP (3:1))	68937-41-7
Plastisizers: N-ethyl-toluenesulphonamide (NETSA), N-Ethyl ortho toluenesulphonamide and N-Ethyl para toluenesulphonamide	8047-99-2, 1077-66-1, 80-39-7
Nonylphenol	25154-52-3
Organotin compounds (e.g. DBT, TMT, TBT, TeBT)	
Ozone depleting substances like Chlorofluorocarbons (CFCs), freons and hydrochlorofluorocarbons (HCFCs) according to the Montreal Protocol	
Polycyclic aromatic compounds (PAHs): Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene (BaA), Benzo[a]pyrene (BaP), Benzo[b]fluoranthene (BbF), Benzo[j]fluoranthene (BjF), Benzo[k]fluoranthene (BkF), Benzo[c]fluorine (BcL), Benzo[ghi]perylene (BgP), Chrysene, Cyclopenta[cd]pyrene (CPP), Dibenz[a,h]anthracene (DhA), Dibenzo[a,e]pyrene (DeP), Dibenzo[a,h]pyrene (DhP), Dibenzo[a,i]pyrene (DiP), Dibenzo[a,l]pyrene (DiP), Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene (IcP), 5-Methyl	83-32-9, 208-96-8, 120-12-7, 56-55-3, 50-32-08, 205-99-2, 205-82-3, 207-08-9, 205-12-9, 191-24-2, 218-01-9, 27208-37-3, 53-70-3, 192-65-4, 189-64-0, 189-55-9, 191-30-0, 206-44-0, 86-73-7, 193-39-5, 3697-24-3, 91-20-3, 85-01-8, 129-00-0

<i>Chrysene (5MC), Naphthalene, Phenanthrene, Pyrene</i>	
<i>Parabens: Methylparaben, Ethylparaben, Propylparaben, Butylparaben Heptylparaben</i>	99-76-3, 120-47-8, 94-13-3, 94-26-8, 1085-12-7
<i>PBT and vPvB substances</i>	
<i>Pentachlorothiophenol (PCTP)</i>	133-49-3
<i>2,4-pentanedione</i>	123-54-6
<i>Perfluorinated substances, FTOH, PFOA and PFOS</i>	
<i>2-phenylphenol</i>	90-43-7
<i>Photo-initiators (e.g. ITX, Benzophenone and 4-Methylbenzophenone)</i>	83846-86-0, 119-16-5, 134-84-9
<i>Phthalates (DBP, DiBP, DEHP, DEP, DNPP, DNPP, DNHP, DIOP, DINP)</i>	84-74-2, 84-69-5, 117-81-7, 84-66-2, 131-18-0, 84-75-3, 27554-26-3, 28553-12-0
<i>Polyvinyl chloride (PVC) or polyvinylidene chloride (PVCD)</i>	
<i>Polystyrene</i>	9003-53-6
<i>Primary aromatic amines as defined in BfR XXXVI</i>	
<i>1-Propanol</i>	71-23-8
<i>n-Propylacetate</i>	109-60-4
<i>Radioactive substances according to EC 2013/59 EURATOM</i>	
<i>Rhodamine pigments (Pigment Red 81, Pigment Red 169, Pigment Green 1, Pigment Blue 1, Pigment Blue 62, Pigment Violet 1, Pigment Violet 2, Pigment Violet 3, Pigment Violet 27, Pigment Violet 39)</i>	12224-98-5, 12237-63-7, 1325-75-3, 1325-87-7, 82338-76-91/ 57485-98-0, 1326-03-0, 1326-04-1, 1325-82-2, 12237-62-6, 64070-98-0
<i>Semicarbazide</i>	563-41-7
<i>Silicone oil and Silicone rubber</i>	63148-62-9, 63394-02-5
<i>Styrene</i>	100-42--5
<i>Sodium antimonate</i>	15432-85-6
<i>Titanium diisopropoxide bis(acetylacetonate); (Titanium acetylacetonate (TAA))</i>	17927-72-9
<i>Toluene</i>	108-88-3
<i>Tris(nonylphenyl)phosphite (TNPP)</i>	26523-78-4
<i>2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)</i>	732-26-3
<i>Xylene</i>	1330-20-7

* Please note that we do not analyze the paperboard for the substances listed besides a few exceptions mentioned below. Intentionally added shall mean deliberately utilized in the formulation of a material or component where its continued presence is desired in the final product to provide a specific characteristics, appearance or quality.

Acrylamide

Some of the chemical additives used in the manufacturing process of paper and paperboard contain polyacrylamide. Products containing polyacrylamide might also contain very low levels of the monomer acrylamide. Based on information from our suppliers of polyacrylamide, none of the polyacrylamide products we use contain more than 1000 ppm acrylamide. Polyacrylamide is allowed according to the BfR Recommendation XXXVI provided that the polymer contains no more than 0.1 % monomeric acrylamide.

Dioxin

The content of 17 2,3,7,8-substituted toxic congeners of polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) and 12 dioxin like PCB's analysed in representative samples is less than 1 ppt WHO-TEQ.

Formaldehyde

Analysis has been performed on representative paper and paperboard samples according to EN 1541. The amount of formaldehyde is < 1 mg/dm².

Heavy metals

Cadmium (Cd) < 5 µg/l in the cold water extract of the paperboard
Lead (Pb) < 10 µg/l in the cold water extract of the paperboard

Chromium VI (Cr) < 0.25 mg/kg dry board
Mercury (Hg) < 0.3 mg/kg dry board

Other elements

Arsenic (As) < 0.75 mg/kg dry board
Antimony (Sb) < 0.2 mg/kg dry board
Selenium (Se) < 0.7 mg/kg dry board

Polychlorinated biphenyls (PCB)

Analyses have been performed on representative paper and paperboard samples for polychlorinated biphenyls (PCB) according to EN ISO 15318. The amount of PCB is < 2.0 mg/kg.

Pentachlorophenol (PCP)

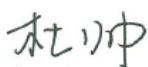
Analysis has been performed on representative paper and paperboard samples according to EN ISO 15320. The amount of PCP is < 0.1 mg/kg.

REACH Regulation (EC) 1907/2006

We continuously monitor the development of the Candidate List of Substances of Very High Concern, the substances for authorization as well as any restrictions applicable to our use. To our knowledge and based on the information from our suppliers today we can confirm that none of our articles contains substances included on the Candidate List of SVHCs (incl. Annex XIV, Authorisation) in a concentration above 0.1% (w/w).

This information is valid for the products delivered by Stora Enso Division Packaging Materials, Beihai Mill before further packaging converting.

Beihai, April 07, 2021



Martin Du
Product Safety Manager
Beihai Mill

Disclaimer

It is the responsibility of the manufacturer of the finished packages to ensure that products fabricated from material manufactured by us meet all relevant regulatory and legislative requirements, specifications and limitations in the intended application. This certificate and its contents are subject to the following additional limitations and disclaimers:

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