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ANNEX II

LIST OF SUBSTANCES AUTHORISED IN THE MANUFACTURE OF REGENERATED CELLULOSE FILM

NB:

- The percentages in this Annex, first and second parts, are expressed in weight/weight (w/w) and are calculated in relation to the quantity of anhydrous uncoated regenerated cellulose film.
- The usual technical denominations are given in square brackets.
- The substances used shall be of good technical quality as regards the purity criteria.

FIRST PART

Uncoated regenerated cellulose film

mamely which do not contain water which is physically free at the surface. The total amount of bis(2-hydroxyethyl)ether and ethanediol present in foodstuffs that have been in contact with film of this type may rexceed 30 mg/kg of the foodstuff. — 1,3-butanediol — Glycerol — 1,2-propanediol [= 1,2 propyleneglycol] — Polyethylene oxide [= polyethyleneglycol] — 1,2-polypropylene oxide [= 1,2 polypropyleneglycol] Average molecular weight between 250 and 200. Average molecular weight not greater than 400 and free 1,3-propanediol content not greater than 1 % (w/w) in substance.	Denominations		Restrictions
Not more than 27 % (w/w) in total		<u> </u>	Not less than 72 % (w/w)
Bis (2-hydroxyethyl) ether [= diethyleneglycol]	B. Ad	ditives	
His (2-hydroxyethyl) ether [= diethyleneglycol] Ethanediol [= monoethyleneglycol] High polyethyleneglycol] Ethanediol [= monoethyleneglycol] High polyethyleneglycol] High polyethylene oxide [= polyethyleneglycol] Average molecular weight not greater than 400 and free 1,3-propanediol content not greater than 1 % (w/w) in substance.	1.	Softeners	Not more than 27 % (w/w) in total
 Ethanediol [= monoethyleneglycol] amount of bis(2-hydroxyethyl)ether and ethanediol present in foodstuffs that have been in contact with film of this type may rexceed 30 mg/kg of the foodstuff. 1,3-butanediol Glycerol 1,2-propanediol [= 1,2 propyleneglycol] Polyethylene oxide [= polyethyleneglycol] 1,2-polypropylene oxide [= 1,2 polypropyleneglycol] Average molecular weight between 250 and 200. Average molecular weight not greater than 400 and free 1,3-propanediol content not greater than 1 % (w/w) in substance. Sorbitol 	_		then used for foodstuffs which are not moist, namely which do not contain water which
 Glycerol 1,2-propanediol [= 1,2 propyleneglycol] Polyethylene oxide [= polyethyleneglycol] 1,2-polypropylene oxide [= 1,2 polypropyleneglycol] Average molecular weight between 250 and 200. Average molecular weight not greater than 400 and free 1,3-propanediol content not greater than 1 % (w/w) in substance. Sorbitol 	_	Ethanediol [= monoethyleneglycol]	is physically free at the surface. The total amount of bis(2-hydroxyethyl)ether and ethanediol present in foodstuffs that have been in contact with film of this type may no
 1,2-propanediol [= 1,2 propyleneglycol] Polyethylene oxide [= polyethyleneglycol] 1,2-polypropylene oxide [= 1,2 polypropyleneglycol] Sorbitol Average molecular weight between 250 and 200. Average molecular weight not greater than 400 and free 1,3-propanediol content not greater than 1 % (w/w) in substance.		1,3-butanediol	
propyleneglycol] Polyethylene oxide [=	_	Glycerol	
 Polyethylene oxide [= polyethyleneglycol] 1,2-polypropylene oxide [= 1,2 polypropyleneglycol] Sorbitol Average molecular weight not greater than 400 and free 1,3-propanediol content not greater than 1 % (w/w) in substance.	_		
 1,2-polypropylene oxide [= 1,2 polypropyleneglycol] 400 and free 1,3-propanediol content not greater than 1 % (w/w) in substance. 	_		Average molecular weight between 250 and 1 200.
	_		400 and free 1,3-propanediol content not
— Tetraethyleneglycol	_	Sorbitol	
10 metric series significant and series significant significant and series significant and		Tetraethyleneglycol	
— Triethyleneglycol		Triethyleneglycol	
— Urea	_	Urea	

2.	Other additives	Not more than 1 % (w/w) in total.
		The quantity of the substance or group of substances in each indent may not exceed 2 mg/dm ² of the uncoated film.
_	Acetic acid and its NH ₄ , Ca, Mg, K and Na salts	
_	Ascorbic acid and its NH ₄ , Ca, Mg, K and Na salts	
	Benzoic acid and sodium benzoate	
_	Formic acid and its NH ₄ , Ca, Mg, K and Na salts	
_	Linear fatty acids, saturated or unsaturated, with an even number of carbon atoms from 8 to 20 inclusive and also behenic and ricinoleic acids and the NH ₄ , Ca, Mg, K, Na, Al, Zn salts of these acids	
_	Citric, d- and l-lactic, maleic, l-tartaric acids and their Na and K salts	
	Sorbic acid and its NH ₄ , Ca, Mg, K and Na salts	
	Amides of linear fatty acids, saturated or unsaturated, with an even number of carbon atoms from 8 to 20 inclusive and also the amides of behenic and ricinoleic acids	
	Natural edible starches and flours	
_	Edible starches and flours modified by chemical treatment	
_	Amylose	
_	Calcium and magnesium carbonates and chlorides	

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_	Esters of glycerol with linear fatty acids, saturated or unsaturated, with an even number of carbon atoms from 8 to 20 inclusive and/or with adipic, citric, 12-hydroxystearic (oxystearin), ricinoleic acids	
_	Esters of polyoxyethylene (8 to 14 oxyethylene groups) with linear fatty acids, saturated or unsaturated, with an even number of carbon atoms from 8 to 20 inclusive	
_	Esters of sorbitol with linear fatty acids, saturated or unsaturated, with an even number of carbon atoms from 8 to 20 inclusive	
_	Mono-and/or di-esters of stearic acid with ethanediol and/or bis (2-hydroxyethyl) ether and/or triethylene glycol	
_	Oxides and hydroxides of aluminium, calcium, magnesium and silicon and silicates and hydrated silicates of aluminium, calcium, magnesium and potassium	
	Polyethylene oxide [= polyethyleneglycol]	Average molecular weight between 1 200 and 4 000.
_	Sodium propionate	
Second o	class	The total quantity of the substances may not exceed 1 mg/dm ² of the uncoated film and the quantity of the substance or group of substances in each indent may not exceed 0,2 mg/dm ² (or a lower limit where one is specified) of the uncoated film.
_	Sodium alkyl (C_8 - C_{18}) benzene sulphonate	
_	Sodium isopropyl naphthalene sulphonate	
_	Sodium alkyl (C ₈ -C ₁₈) sulphate	

_	Sodium alkyl (C ₈ -C ₁₈) sulphonate	
_	Sodium dioctylsulphosuccinate	
_	Distearate of dihydroxyethyl diethylene triamine monoacetate	Not more than 0,05 mg/dm ² of the uncoated film.
_	Ammonium, magnesium and potassium lauryl sulphates	
_	N,N'-distearoyl diaminoethane, N,N'-dipalmitoyl diaminoethane and N,N'-dioleoyl diaminoethane	
_	2-heptadecyl-4,4-bis(methylene- stearate) oxazoline	
_	Polyethylene-aminostearamide ethylsulphate	Not more than 0,1 mg/dm ² of the uncoated film.
Third c	lass — Anchoring agent	The total quantity of substances may not exceed 1 mg/dm ² of the uncoated film.
triethyl tri-(2-h diamino	Condensation product of melamine- formaldehyde unmodified, or which may be modified with one or more of the following products: , diethylenetriamine, ethanol, enetetramine, tetraethylenepentamine, ydroxyethyl) amine, 3,3'- odipropylamine, 4,4'- odibutylamine	Free formaldehyde content not greater than 0,5 mg/dm² of the uncoated film. Free melamine content not greater than 0,3 mg/dm² of the uncoated film.
_	Condensation product of melamine- urea-formaldehyde modified with tris-(2-hydroxyethyl)amine	Free formaldehyde content not greater than 0,5 mg/dm ² of the uncoated film. Free melamine content not greater than 0,3 mg/dm ² of the uncoated film.
(a) (b)	Cross-linked cationic polyalkyleneamines: polyamide-epichlorhydrin resin based on diaminopropylmethylamine and epichlorhydrin; polyamide-epichlorhydrin resin based on epichlorhydrin, adipic acid, caprolactam, diethylenetriamine and/or ethylenediamine;	In accordance with Community directives and in their absence, with national legislation, pending the adoption of Community directives.

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(c) (d) (e)	polyamide-epichlorhydrin resin based on adipic acid, diethylenetriamine and epichlorhydrin, or a mixture of epichlorhydrin and ammonia; polyamide-polyamine-epichlorhydrin resin based on epichlorhydrin, dimethyl adipate and diethylenetriamine; polyamide-polyamine-epichlorhydrin resin based on epichlorhydrin, adipamide and diaminopropylmethylamine	
_	Polyethyleneamines and polyethyleneimines	Not more than 0,75 mg/dm ² of the uncoated film.
sulphani diamino diamino diethyle methano	Condensation product of urea- formaldehyde unmodified, or which may be modified with one or of the following products: ethylsulphonic acid, ilic acid, butanol, butane, diaminodiethylamine, dipropylamine, diaminopropane, netriamine, ethanol, guanidine, ol, tetraethylenepentamine, enetetramine, sodium sulphite	Free formaldehyde content not greater than 0,5 mg/dm ² of the uncoated film.
Fourth o	class	The total quantity of substances may not exceed 0,01 mg/dm ² of the uncoated film.
_	Products resulting from the reaction of the amines of edible oils with polyethylene oxide	
	Monoethanolamine lauryl sulphate	

SECOND PART

Coated regenerated cellulose film

Denominations		Restrictions
A.	Regenerated cellulose	See first part.
В.	Additives	See first part.
C. Coating		
1.	Polymers	The total quantity of substances may not exceed 50 mg/dm ² of the coating on the side in contact with foodstuffs.

_	Ethyl, hydroxyethyl, hydroxypropyl and methyl ethers of cellulose	
_	Cellulose nitrate	Not more than 20 mg/dm ² of the coating on the side in contact with foodstuffs; nitrogen content between 10,8 % (w/w) and 12,2 % (w/w) in the cellulose nitrate.
2.	Resins	The total quantity of substances may not exceed 12,5 mg/dm ² of the coating on the side in contact with foodstuffs and solely for the preparation of regenerated cellulose films with cellulose nitrate based coatings.
_	Casein	
_	Colophony and/or its products of polymerization, hydrogenation, or disproportionation and their esters of methyl, ethyl or C ₂ to C ₆ polyvalent alcohols, or mixtures of these alcohols	
_	Colophony and/or its products of polymerization, hydrogenation, or disproportionation condensed with acrylic, maleic, citric, fumaric and/or phthalic acids and/or 2,2 bis (4-hydroxyphenyl) propane formaldehyde and esterified with methyl ethyl or C ₂ to C ₆ polyvalent alcohols or mixtures of these alcohols	
_	Esters derived from bis(2-hydroxyethyl) ether with addition products of betapinene and/or dipentene and/or diterpene and maleic anhydride	
	Edible gelatine	
_	Castor oil and its products of dehydration or hydrogenation and its condensation products with polyglycerol, adipic, citric, maleic, phthalic and sebacic acids	
	Natural gum [= damar]	

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	Poly-beta-pinene [= terpenic resins]	
_	Urea-formaldehyde resins (see anchoring agents)	
3.	Plasticisers	The total quantity of substances may not exceed 6 mg/dm ² of the coating on the side in contact with foodstuffs.
_	Acetyl tributyl citrate	
_	Acetyl tri(2-ethylhexyl) citrate	
_	Di-isobutyl adipate	
_	Di-n-butyl adipate	
_	Di-n-hexyl azelate	
_	Dicyclohexyl phthalate	Not more than 4,0 mg/dm ² of the coating on the side in contact with foodstuffs.
_	2-ethylhexyl diphenyl phosphate (synonym: phosphoric acid diphenyl 2 ethylhexyl ester)	The amount of 2-ethylhexyl diphenyl phosphate shall not exceed: (a) 2,4 mg/kg of the foodstuff in contact with this type of film; or (b) 0,4 mg/dm² in the coating on the side in contact with foodstuffs.
_	Glycerol monoacetate [= monoacetin]	
	Glycerol diacetate [= diacetin]	
	Glycerol triacetate [= triacetin]	
	Di-butyl sebacate	
	Di-n-butyl tartrate	
	Di-isobutyl tartrate	
4.	Other additives	The total quantity of substances may not exceed 6 mg/dm ² in the uncoated regenerated cellulose film, inclusive of the coating on the side in contact with foodstuffs.
4.1.	Additives listed in the first part	Same restrictions as in the first part (however the quantities in mg/dm² refer to the uncoated regenerated cellulose film, inclusive of

		the coating on the side in contact with foodstuffs).
4.2.	Specific coating additives	The quantity of the substance or group of substances in each indent may not exceed 2 mg/dm² (or a lower limit where one is specified) of the coating on the side in contact with foodstuffs.
_	1-hexadecanol and 1-octadecanol	
_	Esters of linear fatty acids, saturated or unsaturated, with an even number of carbon atoms from 8 to 20 inclusive and of ricinoleic acid with ethyl, butyl, amyl and oleyl linear alcohols	
_	Montan waxes, comprising purified montanic (C ₂₆ to C ₃₂) acids and/or their esters with ethanediol and/or 1,3 butanediol and/or their calcium and potassium salts	
_	Carnauba wax	
	Beeswax	
	Esparto wax	
_	Candelilla wax	
_	Dimethylpolysiloxane	Not more than 1 mg/dm ² of the coating on the side in contact with foodstuffs.
_	Epoxidised soya-bean oil (oxirane content 6 to 8 %)	
_	Refined paraffin and microcrystalline waxes	
	Pentaerythritol tetrastearate	
_	Mono and bis(octadecyldiethyleneoxide)-phosphates	Not more than 0,2 mg/dm ² of the coating on the side in contact with foodstuffs.
_	Aliphatic acids (C ₈ to C ₂₀) esterified with mono- or di-(2-hydroxyethyl)amine	

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_	2- and 3-tert.butyl-4- hydroxyanisole [= butylated hydroxyanisole — BHA]	Not more than 0,06 mg/dm ² of the coating on the side in contact with foodstuffs.
_	2,6-di-tert.butyl-4-methylphenol [= butylated hydroxytoluene — BHT]	Not more than 0,06 mg/dm ² of the coating on the side in contact with foodstuffs.
_	Di-n-octyltin-bis(2-ethylhexyl) maleate	Not more than 0,06 mg/dm ² of the coating on the side in contact with foodstuffs.
5.	Solvents	The total quantity of substances may not exceed 0,6 mg/dm ² of the coating on the side in contact with foodstuffs.
_	Butyl acetate	
_	Ethyl acetate	
_	Isobutyl acetate	
_	Isopropyl acetate	
_	Propyl acetate	
	Acetone	
	1-butanol	
	Ethanol	
_	2-butanol	
	2-propanol	
	1-propanol	
	Cyclohexane	
_	Ethyleneglycol monobutyl ether	
_	Ethyleneglycol monobutyl ether acetate	
_	Methyl ethyl ketone	
_	Methyl isobutyl ketone	
	Tetrahydrofuran	

_	Not more than 0,06 mg/dm ² of the coating on the side in contact with foodstuffs.