

# هيئة التقىيس لدول مجلس التعاون لدول الخليج العربية

## GCC STANDARDIZATION ORGANIZATION (GSO)

مشروع لائحة نهائى  
Draft of Standard FDS

اعداد اللجنة الفنية الخليجية رقم TC05

Prepared by GSO Technical Committee No. TC05

**GSO 1836 /2017**

**عبوات المواد الغذائية**  
**الجزء الثاني: العبوات البلاستيكية – اشتراطات عامة**  
**Food packages – Part 2: Plastic package - General requirements**

I.C.S: 67.100

This document is a draft GSO Standard circulated for comments. It is, therefore, subject to alteration and modification and may not be referred to as a GSO Standard until approved by GSO.

هذه الوثيقة مشروع مواصفة قياسية خليجية تم توزيعها لإبداء الرأي والملحوظات بشأنها، لذلك فإنها عرضة للتغيير والتبدل، ولا يجوز الرجوع إليها كمواصفة قياسية خليجية إلا بعد اعتمادها من الهيئة.

## تقديم

هيئة التقييس لدول مجلس التعاون لدول الخليج العربية هيئات إقليمية تضم في عضويتها الأجهزة الوطنية للمواصفات والمقاييس في دول الخليج العربية، ومن مهام الهيئة إعداد المواصفات القياسية الخليجية بواسطة لجان فنية متخصصة.

وقد قامت هيئة التقييس لدول مجلس التعاون لدول الخليج العربية ضمن برنامج عمل اللجنة الفنية رقم ٥ "اللجنة الفنية الخليجية لقطاع مواصفات المنتجات الغذائية والزراعية" بتحديث مشروع المواصفة، "عبوات المواد الغذائية الجزء الثاني: العبوات البلاستيكية - اشتراطات عامة". وقامت (المملكة العربية السعودية) بإعداد مشروع هذه المواصفة.

وقد اعتمدت هذه المواصفة ك(مواصفة قياسية / لائحة فنية) خلنجية في اجتماع مجلس إدارة الهيئة رقم ( ) ، الذي عقد بتاريخ / / هـ ، الموافق / / م. على أن تُلغى المواصفة رقم ( / ) وتحل محلها.

**عبوات المواد الغذائية****الجزء الثاني: العبوات البلاستيكية – اشتراطات عامة**

**المجال:** -1

تختص هذه المواصفة القياسية بالاشتراطات العامة للمواد والعبوات البلاستيكية الملامسة للأغذية المستخدمة في تعبئة وتغليف المواد الغذائية.

**المراجع التكميلية:** -2

GSO 839 "عبوات المواد الغذائية . الجزء الأول . اشتراطات عامة ." 1/2

المواصفة القياسية الخلبيجية التي تعتمد其ها الهيئة والخاصة بـ " عبوات المواد الغذائية . طرق اختبار العبوات البلاستيكية " . 2/2

المواصفة القياسية الخلبيجية التي ستعتمد其ها الهيئة (المواد و الأدوات البلاستيكية معادة التدوير بغرض استخدامها لملامسة الأغذية). 3/2

**التعاريف:** -3

**مواد بلاستيكية** 1/3

مواد مصنعة من مواد بتروكيميائية بسيطة ذات وزن جزيئي صغير يتم بلمرتها لمنتج مركبات ذات وزن جزيئي كبير مثل عديد الإيثيلين وعديد البروبيلين وعديد كلوريد الفينيل وعديد الاستيارين وعديد الإثيلين ثلاثي الفتالات.

**مواد التعبئة والتغليف البلاستيكية:** 2/3

مواد بلاستيكية (بند 1/3) تلين بالحرارة تتم معالجتها بطرق معينة لتصنيعها وتشكيلها بطرق البثق، القولبة بالحقن، القولبة بالشد، التشكيل الحراري، البثق الأنبوبي، القولبة الدورانية، القولبة بالانضغاط أو بأي طرق أخرى مستحدثة، وقد يضاف إليها بعض المواد مثل الملونات والمثبتات ومضادات الأكسدة والملدنات، وذلك بغرض الحصول على خصائص معينة تتلاءم مع الأغراض المعدة من أجلها، وتشمل عدة أنواع منها الرقائق المرنة والمواد اللينة والقاسية وشبه القاسية.

**عبوة بلاستيكية:** 3/3

عبوة مصنوعة من مادة بلاستيكية (بند 3/2) ، تستخدم لتعبئة وتغليف المادة الغذائية بعرض احتواها وحمايتها وحفظها ، ولها أشكال عدة تشمل القوارير والأكياس والأطباق والصواني والكاسات والأنابيب المرنة والصلبة والبرطمانات والبراميل والصناديق والأكياس المنسوجة ، أو أي أشكال هندسية أخرى .

**مضادات الأكسدة:** 4/3

مواد تضاف للمادة البلاستيكية لتفادي أكسدتها أثناء التصنيع والتخزين والاستخدام النهائي.

**نفاذية الغازات والأبخرة:** مقياس لمعدل نفاذية الغاز أو البخار خلال سمك محدد من المادة البلاستيكية عند ظروف محددة من درجة الحرارة والضغط والرطوبة النسبية.

**ترحّف:** مقياس للتشوه الذي يحدث مع مرور الزمن عند تعریض المادة البلاستيكية لحمل ثابت.

**تدھور العبوة البلاستيكية:** حدوث تغير ملموس في تركيبها الكيميائي وخصائصها الطبيعية ومظاهرها.

**الثبات البعدى:** الاحتفاظ بالأبعاد الهندسية الابتدائية والشكل الأولي للعبوة.

**الهجرة العامة:** عملية انتقال لعدد من مكونات العبوة البلاستيكية للغذاء أو ما يشابهه.

**الهجرة الخاصة:** عملية انتقال مادة معينة من مكونات العبوة البلاستيكية للغذاء أو ما يشابهه.

**المواد المحاكية للغذاء:** مواد اختبار شبيهة بيئية للأغذية وهي تحفز الهجرة من المواد والأسطح الملمسة للأغذية.

#### - الاشتراطات العامة:

مع عدم الإخلال بما ورد في المواصفة القياسية الخليجية الواردة في البند 1/2 يجب أن تتوافر في العبوات البلاستيكية المستخدمة في تعبئة وتغليف المواد الغذائية المتطلبات التالية :

1/4 أن تكون جميع الخامات البلاستيكية المستخدمة في تصنيع عبوات المواد الغذائية معروفة

المصدر والتركيب .

2/4 أن تكون نظيفة متجانسة ، خالية من المواد الغريبة و الانتفاخات والجيوب الهوائية.

3/4 أن لا تتسبب في أي مخاطر على صحة المستهلك .

4/4 أن لا تؤدي إلى تدهور الخصائص الحسية للمادة الغذائية المعبأة أو حدوث تغيرات غير مرغوبة في طبيعة وجودة المادة الغذائية.

5/4 أن تكون الأصباغ والملونات الأخرى المستخدمة في تشكيلها وتصنيعها غير سامة وغير قابلة للهجرة التي قد تؤدي إلى تفاعلها أو اختلاطها مع المواد الغذائية.

6/4 أن تكون مقاومة لأنثر الارتطام الناتج عن الصدمات والاهتزازات الميكانيكية.

7/4 أن لا يحدث شرخ أو تمزق أو انشقاق بالعبوات القاسية الفارغة عند إسقاطها ثلاثة مرات متتالية من ارتفاع 75 سم على سطح صلب .

8/4 أن لا تتأثر العبوة بالحرارة أثناء تعبئتها أو قفلها أو تخزينها أو نقلها أو تداولها مما قد يؤدي إلى تشويهها أو تغيير تركيبها وخواصها الكيميائية والطبيعية أو زيادة احتمالات التفاعلات وهجرة المواد الأحادية أو المود المضافة إلأ في الحدود المسموح بها.

9/4 أن تكون درجة ترطفها منخفضة لفقدان المشكلات التي قد تنشأ نتيجة لعمليات الرص والتداول ، وأن تتميز بالثبات البعدى لفقدان صعوبات الطباعة.

10/4 أن تكون مقاومتها للأحماس والقواعد ملائمة للمادة الغذائية المعبأة.

11/4 أن لا يتغير الرقم الهيدروجيني لمحلول مائي يتراوح رقمه الهيدروجيني بين 6-8 موضوعاً في العبوة لمدة ساعة واحدة.

12/4 أن لا تكون قابلة للتتفاعل مع المذيبات العضوية والزيوت في المواد الغذائية المعبأة.

13/4 أن تكون نفاذيتها لبخار الماء ملائمة للمادة الغذائية المعبأة.

14/4 أن تكون نفاذيتها للغازات ملائمة للمادة الغذائية المعبأة.

15/4 أن لا تتأثر العبوة بالضوء عند تعرضها له لفترات طويلة.

16/4 أن يكون لها قابلية إحكام الغلق وذلك في حالة استخدامها كعبوة قابلة للتعقيم لتعبئة المواد الغذائية.

17/4 أن لا يزيد تركيز أحادي كلوريد الفينيل على 1 مغ لكل كغ من المادة البلاستيكية أو 0.01 مغ لكل كغ من المادة الغذائية المعبأة وذلك في حالة العبوات المصنوعة من مادة عديد كلوريد الفينيل.

18/4 أن لا يزيد تركيز أحادي الإستيارين في المادة البلاستيكية على 1 بالوزن في عبوات المواد الغذائية غير الدهنية وعلى 0.5 في عبوات المواد الغذائية الدهنية وذلك في حالة العبوات المصنوعة من عديد الإستيارين أو عديد الإستيارين المطاطي المعدل.

19/4 أن لا يزيد تركيز أحادي الأكريلونيترايل على **0.005** مغ لكل كغ من المادة البلاستيكية أو **0.02** مغ / كغ من المادة الغذائية وذلك في حالة العبوات المصنوعة من مادة الأكريلونيترايل.

20/4 أن يراعى في حالة تصنيع عبوات مركبة من عدة طبقات وأكثر من مادة ضرورة التخلص من بقايا المذيبات أو المواد اللاصقة أو المواد الرئيسية بحيث لا تزيد بقايا تلك المذيبات مجتمعة على **5** مغ لكل متر مربع من سطح العبوة.

21/4 أن لا تزيد نسبة الهجرة العامة على **10** مغ/دم ٢ أو **60** مغ/كغ.

22/4 أن لا يزيد مستوى الهجرة للأمينات العطرية على **١٠** ميكروغرام/كجم.

23/4 في حالة استخدام مخلفات التصنيع (الرايش) أو خامات سبق استخدامها يجب ان تكون مطابقة للمواصفة الواردة في البند **3/2**.

#### 5 - المواد:

1/5 قائمة بما هو مرخص به من مونومرات، وغيرها من المواد الخام (الأولية)، والجزئيات التي تم الحصول عليها من عملية التخمير الميكروبي، والمضافات، ومساعدات إنتاج البوليمر.

يتضمن الجدول **1** المعلومات التالية:

**العمود 1** FCM substance No (FCM substance No): الرقم التعريفي الفريد المميز للمادة.

**العمود 2** (Ref. No): الرقم المرجعي لمادة التعبئة والتغليف في الاتحاد الأوروبي.

**العمود 3** (CAS No): رقم التسجيل في خدمة المستخلصات الكيميائية(CAS).

**العمود 4** (Substance Name): اسم المادة الكيميائية.

**العمود 5:** (يستخدم كمضاف او كعامل مساعد لإنتاج البوليمر (نعم/لا)) (نعم) للإشارة إلى أن المادة مرخص باستخدامها كمضاف او كعامل مساعد لإنتاج البوليمر او (لا) للإشارة إلى أن المادة غير مرخص باستخدامها كمضاف او كعامل مساعد لإنتاج البوليمر، إذا كانت المادة مرخص باستخدامها فقط كعامل مساعد لإنتاج البوليمر فإنه يشار إليه ب (نعم) و يشار في الخصائص بأن يكون هذا الاستخدام مقيد فقط كعامل مساعد لإنتاج البوليمر.

**العمود 6** (يستخدم كمونomer أو غيرها من المواد الخام أو جزيء دقيق تم الحصول عليها من خلال عملية التخمير الميكروبي (نعم/لا)): (نعم) للإشارة إلى أن الماده مرخص باستخدامها كمونomer أو غيرها من المواد الخام أو جزيء دقيق تم الحصول عليها من خلال عملية التخمير الميكروبي أو (لا) عندما تكون المادة غير مرخص باستخدامها كمونomer أو غيرها من المواد الخام أو جزيء دقيق تم الحصول عليها من خلال عملية التخمير الميكروبي. إذا كانت المادة تم الحصول عليها من خلال

عملية التخمير الميكروبي فانه يشار إليها ب (نعم) ويشار في الخصائص بأن المادة تم الحصول عليها من خلال عملية التخمير الميكروبي.

**العمود 7 (FRF applicable (yes/no)):** (نعم) للإشارة إلى أنه يمكن تصحيح نتائج الهجرة بواسطة عامل تخفيض استهلاك الدهون و (لا) إذا كان لا يمكن تصحيحة بواسطة عامل تخفيض استهلاك الدهون.

**العمود 8 (SML [mg/kg]):** الحد المسموح به للهجرة الخاصة للمادة، ويعبر عن ذلك بالوحدة ملغ من المادة لكل كغ غذاء. يشار ب(ND) إذا لم يتم الكشف عن المادة كمياً.

**العمود 9 (SML(T) [mg/kg] (group restriction N)):** يحتوي على رقم تعريف مجموعة المواد التي ينطبق عليها تقييد المجموعة في العمود 1 من الجدول 2 من هذا الملحق.

**العمود 10 (restrictions and specific restrictions):** يحتوي على قيود أخرى غير الهجرة الخاصة المذكورة على وجه التحديد، و يحتوي على خواص المادة. في حال تم تعين الخواص التفصيلية فسوف يشار إلى ذلك في الجدول رقم 4.

**عمود 11 (Notes on verification of compliance):** يحتوي على عدد الملاحظات التي تشير إلى القواعد التفصيلية المطبقة للتحقق من الامتثال لهذه المادة المدرجة في العمود 1 في الجدول 3 من هذا الملحق.

إذا ظهرت مادة في القائمة كأنها مادة جزئية فيجب أن تطبق عليها الحدود الخاصة بالممواد الجزئية في العمود رقم 8 إذا لم تحدد الهجرة الخاصة (ND) يجب ألا تزيد الهجرة عن 0.01 مغ/كغ.

TABLE 1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
FCM substance No	Ref. No	CAS No	Substance name	Use as additive or polymer production aid (yes/no)	Use as mono- mer or other starting substance or macromolecule obtained from microbial fermentation (yes/no)	FRF applicable (yes/no)	SML [mg/kg]	SML(T) [mg/kg] (Group restriction No)	Restrictions and specifications	Notes on verification of compliance
1	12310	0266309-43-7	albumin	no	yes	no				
2	12340	—	albumin, coagulated by formaldehyde	no	yes	no				
3	12375	—	alcohols, aliphatic, monohydric, saturated, linear, primary (C <sub>4</sub> -C <sub>22</sub> )	no	yes	no				
4	22332	—	mixture of (40 % w/w) 2,2,4-trimethylhexane-1,6-diisocyanate and (60 % w/w) 2,4,4-trimethylhexane-1,6-diisocyanate	no	yes	no	(17)	1 mg/kg in final product expressed as isocyanate moiety.	(10)	
5	25360	—	trialkyl(C <sub>5</sub> -C <sub>15</sub> )acetic acid, 2,3- epoxypropyl ester	no	yes	no	ND	1 mg/kg in final product expressed as epoxygroup. Molecular weight is 43 Da.		

6	25380	—	trialkyl acetic acid (C <sub>7</sub> -C <sub>17</sub> ), vinyl esters	no	yes	no	0,05	(1)
7	30370	—	acetylacetic acid, salts	yes	no	no		
8	30401	—	acylated mono- and diglycerides of fatty acids	yes	no	no	(32)	
9	30610	—	acids, C <sub>2</sub> -C <sub>24</sub> , aliphatic, linear, monocarboxylic from natural oils and fats, and their mono-, di- and triglycerol esters (branched fatty acids at naturally occurring levels are included)	yes	no	no		
10	30612	—	acids, C <sub>2</sub> -C <sub>24</sub> , aliphatic, linear, monocarboxylic, synthetic and their mono-, di- and triglycerol esters	yes	no	no		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
11	30960	—	acids, aliphatic, monocarboxylic polyglycerol	yes	no	no		(10)
12	31328	—	acids, fatty, from animal or	yes	no	no		(11)

## vegetable food fats and oils

13	33120	—	alcohols, aliphatic, monohydric, saturated, linear, primary  (C <sub>4</sub> -C <sub>24</sub> )	yes	no	no	
14	33801	—	n-alkyl(C <sub>10</sub> -C <sub>13</sub> ) benzenesulphonic acid	yes	no	no	30
15	34130	—	alkyl, linear with even number of carbon atoms (C <sub>12</sub> -C <sub>20</sub> ) dimethylamines	yes	no	yes	30
16	34230	—	alkyl(C <sub>8</sub> -C <sub>22</sub> )sulphonic acids	yes	no	no	6
17	34281	—	alkyl(C <sub>8</sub> -C <sub>22</sub> )sulphuric acids, linear, primary with an even number of carbon atoms	yes	no	no	
18	34475	—	aluminium calcium hydroxide phosphite, hydrate	yes	no	no	
19	39090	—	N,N-bis(2-hydroxyethyl)alkyl (C <sub>8</sub> -C <sub>18</sub> )amine	yes	no	no	(7)
20	39120	—	N,N-bis(2-hydroxyethyl)alkyl (C <sub>8</sub> -C <sub>18</sub> )amine hydrochlorides	yes	no	no	(7) SML(T) expressed excluding HCl

21	42500	—	carbonic acid, salts	yes	no	no					
22	43200	—	castor oil, mono- and diglycerides	yes	no	no					
23	43515	—	chlorides of choline esters of coconut oil fatty acids	yes	no	no	0,9				(1)
24	45280	—	cotton fibers	yes	no	no					
25	45440	—	cresols, butylated, styrenated	yes	no	no	12				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
26	46700	—	5,7-di-tert-butyl-3-(3,4- and 2,3-dimethylphenyl)-3H- benzofuran-2-one containing: a) 5,7-di-tert-butyl-3-(3,4- dimethylphenyl)-3H- benzofuran-2-one (80 to 100 % w/w) and b) 5,7-di-tert-butyl-3- (2,3-dimethylphenyl)-3H- benzofuran-2-one (0 to 20 % w/w)	yes	no	no	5				
27	48960	—	9,10-dihydroxy stearic acid and its oligomers	yes	no	no	5				
28	50160	—	di-n-octyltin bis(n-alkyl(C <sub>10</sub> -C <sub>16</sub> ) mercaptoacetate)	yes	no	no		(10)			
29	50360	—	di-n-octyltin bis(ethyl maleate)	yes	no	no		(10)			
30	50560	—	di-n-octyltin 1,4-butanediol bis(mercaptoacetate)	yes	no	no		(10)			
31	50800	—	di-n-octyltin dimaleate,	yes	no	no		(10)			

esterified

32	50880	—	di-n-octyltin dimaleate, polymers (n = 2-4)	yes	no	no	(10)				
33	51120	—	di-n-octyltin thiobenzoate 2-ethylhexyl mercaptoacetate	yes	no	no	(10)				
34	54270	—	ethylhydroxymethylcellulose	yes	no	no					
35	54280	—	ethylhydroxypropylcellulose	yes	no	no					
36	54450	—	fats and oils, from animal or vegetable food sources	yes	no	no					
37	54480	—	fats and oils, hydrogenated, from animal or vegetable food sources	yes	no	no					
38	55520	—	glass fibers	yes	no	no					
39	55600	—	glass microballs	yes	no	no					
40	56360	—	glycerol, esters with acetic acid	yes	no	no					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
41	56486	—	glycerol, esters with acids, aliphatic, saturated, linear, with an even number of carbon atoms ( $C_{14}-C_{18}$ ) and with acids,  aliphatic, unsaturated, linear,  with an even number of carbon atoms ( $C_{16}-C_{18}$ )	yes	no	no					
42	56487	—	glycerol, esters with butyric acid	yes	no	no					
43	56490	—	glycerol, esters with erucic acid	yes	no	no					

44	56495	—	glycerol, esters with 12-hydroxystearic acid	yes	no	no
45	56500	—	glycerol, esters with lauric acid	yes	no	no
46	56510	—	glycerol, esters with linoleic acid	yes	no	no
47	56520	—	glycerol, esters with myristic acid	yes	no	no
48	56535	—	glycerol, esters with nonanoic acid	yes	no	no
49	56540	—	glycerol, esters with oleic acid	yes	no	no
50	56550	—	glycerol, esters with palmitic acid	yes	no	no
51	56570	—	glycerol, esters with propionic acid	yes	no	no
52	56580	—	glycerol, esters with ricinoleic acid	yes	no	no
53	56585	—	glycerol, esters with stearic acid	yes	no	no
54	57040	—	glycerol monooleate, ester with ascorbic acid	yes	no	no
55	57120	—	glycerol monooleate, ester with citric acid	yes	no	no
56	57200	—	glycerol monopalmitate, ester	yes	no	no

with ascorbic acid

57	57280	—	glycerol monopalmitate, ester with citric acid	yes	no	no				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
58	57600	—	glycerol monostearate, ester with ascorbic acid	yes	no	no				
59	57680	—	glycerol monostearate, ester with citric acid	yes	no	no				
60	58300	—	glycine, salts	yes	no	no				
62	64500	—	lysine, salts	yes	no	no				
63	65440	—	manganese pyrophosphate	yes	no	no				
64	66695	—	methylhydroxymethylcellulose	yes	no	no				
65	67155	—	mixture of 4-(2-benzoxazolyl)- 4'-(5-methyl-2-benzoxazolyl) stilbene, 4,4'-bis (2-benzoxazolyl) stilbene and 4,4'-bis(5-methyl-2- benzoxazolyl)stilbene	yes	no	no	Not more than 0,05 % (w/w) (quantity of substance used/quantity of the formula- tion). Mixture obtained from the manufacturing process in the typical ratio of (58- 62 %):(23-27 %):(13-17 %).			
66	67600	—	mono-n-octyltin tris(alkyl)	yes	no	no	(11)			

(C<sub>10</sub>-C<sub>16</sub>) mercaptoacetate)

67	67840	—	montanic acids and/or their esters with ethyleneglycol and/or with 1,3-butanediol and/or with glycerol	yes	no	no	
68	73160	—	phosphoric acid, mono- and di-n-alkyl (C <sub>16</sub> and C <sub>18</sub> ) esters	yes	no	yes	0,05
69	74400	—	phosphorous acid, tris(nonyl- and/or dinonylphenyl) ester	yes	no	yes	30
70	76463	—	polyacrylic acid, salts	yes	no	no	(22)
71	76730	—	polydimethylsiloxane, $\gamma$ -hydroxypropylated	yes	no	no	6
72	76815	—	polyester of adipic acid with glycerol or pentaerythritol, esters with even numbered, unbranched C <sub>12</sub> -C <sub>22</sub> fatty acids	yes	no	no	(32) The fraction with molecular weight below 1 000 Da should not exceed 5 % (w/w)
73	76866	—	polyesters of 1,2-propanediol and/or 1,3- and/or 1,4-butanediol and/or polypropylene-glycol with adipic acid, which may be end-capped with acetic acid or fatty acids C <sub>12</sub> -C <sub>18</sub> or n-octanol and/or n-decanol	yes	no	yes	(31) (32)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
74	77440	—	polyethyleneglycol diricinoleate	yes	no	yes	42			
75	77702	—	polyethyleneglycol esters of aliph. monocarb. acids (C <sub>6</sub> -C <sub>22</sub> ) and their ammonium and sodium sulphates	yes	no	no				
76	77732	—	polyethylene glycol (EO = 1-30, typically 5) ether of butyl 2-cyano 3-(4-hydroxy- 3-methoxyphenyl) acrylate	yes	no	no	0,05	Only for use in PET		
77	77733	—	polyethyleneglycol (EO = 1-30, typically 5) ether of butyl-2-cyano-3- (4-hydroxyphenyl) acrylate	yes	no	no	0,05	Only for use in PET		
78	77897	—	polyethyleneglycol (EO = 1-50) monoalkylether (linear and branched, C <sub>8</sub> -C <sub>20</sub> ) sulphate, salts	yes	no	no	5			
79	80640	—	polyoxyalkyl (C <sub>2</sub> -C <sub>4</sub> ) dimethylpolysiloxane	yes	no	no				
80	81760	—	powders, flakes and fibres of	yes	no	no				

			brass, bronze, copper, stainless			
			steel, tin, iron and alloys of			
			copper, tin and iron			
81	83320	—	propylhydroxyethylcellulose	yes	no	no
82	83325	—	propylhydroxymethylcellulose	yes	no	no
83	83330	—	propylhydroxypropylcellulose	yes	no	no
84	85601	—	silicates, natural (with the exception of asbestos)	yes	no	no
85	85610	—	silicates, natural, silanated (with the exception of asbestos)	yes	no	no
86	86000	—	silicic acid, silylated	yes	no	no
87	86285	—	silicon dioxide, silanated	yes	no	no
88	86880	—	sodium monoalkyl dialkylphe- noxybenzenedisulphonate	yes	no	no 9
89	89440	—	stearic acid, esters with ethyleneglycol	yes	no	no (2) (2)
90	92195	—	taurine, salts	yes	no	no

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
91	92320	--	tetradecyl-polyethyleneglycol (EO = 3-8) ether of glycolic acid	yes	no	yes	15			
92	93970	—	Tricyclodecanedimethanol bis(hexahydrophthalate)	yes	no	no	0,05			
93	95858	—	waxes, paraffinic, refined, derived from petroleum based or synthetic hydrocarbon feedstocks, low viscosity	yes	no	no	0,05	Not to be used for articles in contact with fatty foods for which simulant D is laid down.		
								Average molecular weight		
								not less than 350 Da.		
								Viscosity at 100 °C not less		
								than 2,5 cSt ( $2,5 \times 10^{-6}$ m <sup>2</sup> /s).		
								Content of hydrocarbons		
								with Carbon number less		
								than 25, not more than		
								40 % (w/w).		
94	95859	—	waxes, refined, derived from petroleum based or synthetic	yes	no	no		Average molecular weight		
								not less than 500 Da.		
			hydrocarbon feedstocks, high viscosity					Viscosity at 100 °C not less than 11 cSt ( $11 \times 10^{-6}$ m <sup>2</sup> /s).		

Content of mineral hydro-carbons with Carbon number less than 25, not more than 5 % (w/w).

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95	95883	—	white mineral oils, paraffinic, derived from petroleum based hydrocarbon feedstocks	yes	no	no	Average molecular weight not less than 480 Da. Viscosity at 100 °C not less than 8,5 cSt ( $8,5 \times 10^{-6} \text{ m}^2/\text{s}$ ). Content of mineral hydro-carbons with Carbon number less than 25, not more than 5 % (w/w).
96	95920	—	wood flour and fibers, untreated	yes	no	no	

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
97	72081/10	—	petroleum hydrocarbon resins (hydrogenated)	yes	no	no			Petroleum hydrocarbon resins, hydrogenated are produced by the catalytic or thermalpolymerisation of ienes and olefins of the aliphatic, alicyclic and/or monobenzenoidarylalkene types from distillates of cracked petroleum stocks with a boiling range not greater than 220 °C, as well as the pure monomers found in these distillation streams, subsequently followed by distillation, hydrogenation and additional processing. Properties: - Viscosity at 120 °C:> 3 Pa.s, - Softening point:> 95 °C as determined by ASTM Method E 28-67, - Bromine number:< 40 (ASTM D1159), - The colour of a 50% solution in toluene < 11 on the Gardner scale, - Residual aromatic monomer ≤ 50 ppm,	
98	17260 54880	0000050-00-0	formaldehyde	yes	yes	no	(15)			
99	19460 62960	0000050-21-5	lactic acid	yes	yes	no				
100	24490 88320	0000050-70-4	sorbitol	yes	yes	no				
101	36000	0000050-81-7	ascorbic acid	yes	no	no				
102	17530	0000050-99-7	glucose	no	yes	no				
103	18100 55920	0000056-81-5	glycerol	yes	yes	no				

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
104	58960	0000057-09-0	hexadecyltrimethylammonium bromide	yes	no	no	6			
105	22780	0000057-10-3	palmitic acid	yes	yes	no				
	70400									
106	24550	0000057-11-4	stearic acid	yes	yes	no				
	89040									
107	25960	0000057-13-6	urea	no	yes	no				
108	24880	0000057-50-1	sucrose	no	yes	no				
109	23740	0000057-55-6	1,2-propanediol	yes	yes	no				
	81840									
110	93520	0000059-02-9	$\alpha$ -tocopherol 0010191-41-0	yes	no	no				
111	53600	0000060-00-4	ethylenediaminetetraacetic acid	yes	no	no				
112	64015	0000060-33-3	linoleic acid	yes	no	no				
113	16780	0000064-17-5	ethanol	yes	yes	no				
	52800									
114	55040	0000064-18-6	formic acid	yes	no	no				
115	10090	0000064-19-7	acetic acid	yes	yes	no				
	30000									

116	13090	0000065-85-0 benzoic acid	yes	yes	no
	37600				
117	21550	0000067-56-1 methanol	no	yes	no
118	23830	0000067-63-0 2-propanol	yes	yes	no
	81882				
119	30295	0000067-64-1 acetone	yes	no	no
120	49540	0000067-68-5 dimethyl sulphoxide	yes	no	no
121	24270	0000069-72-7 salicylic acid	yes	yes	no
	84640				
122	23800	0000071-23-8 1-propanol	no	yes	no
123	13840	0000071-36-3 1-butanol	no	yes	no
124	22870	0000071-41-0 1-pentanol	no	yes	no
(1)	(2)	(3)	(4)	(5)	(6)
125	16950	0000074-85-1 ethylene	no	yes	no
126	10210	0000074-86-2 acetylene	no	yes	no
127	26050	0000075-01-4 vinyl chloride	no	yes	no
128	10060	0000075-07-0 acetaldehyde	no	yes	no
129	17020	0000075-21-8 ethylene oxide	no	yes	no
			ND	1 mg/kg in final product	(1)
			ND	1 mg/kg in final product	(10)

130	26110 0000075-35-4 vinylidene chloride	no	yes	no	ND	(1)
131	48460 0000075-37-6 1,1-difluoroethane	yes	no	no		
132	26140 0000075-38-7 vinylidene fluoride	no	yes	no	5	
133	14380 0000075-44-5 carbonyl chloride 23155	no	yes	no	ND	1 mg/kg in final product (10)
134	43680 0000075-45-6 chlorodifluoromethane	yes	no	no	6	Content of chlorofluoro methane less than 1 mg/kg of the substance
135	24010 0000075-56-9 propylene oxide	no	yes	no	ND	1 mg/kg in final product
136	41680 0000076-22-2 camphor	yes	no	no		(3)
137	66580 0000077-62-3 2,2'-methylenebis(4-methyl-6-(1-methylcyclohexyl)phenol)	yes	no	yes		(5)
138	93760 0000077-90-7 tri-n-butyl acetyl citrate	yes	no	no		(32)
139	14680 0000077-92-9 citric acid 44160	yes	yes	no		
140	44640 0000077-93-0 citric acid, triethyl ester	yes	no	no		(32)
141	13380 0000077-99-6 1,1,1-trimethylolpropane 25600 94960	yes	yes	no	6	
142	26305 0000078-08-0 vinyltriethoxysilane	no	yes	no	0,05	Only to be used as a surface (1)

										treatment agent
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
143	62450	0000078-78-4	isopentane		yes		no		no	
144	19243	0000078-79-5	2-methyl-1,3-butadiene		no		yes		no	ND
	21640									1 mg/kg in final product
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
145	10630	0000079-06-1	acrylamide	no	yes	no	ND			
146	23890	0000079-09-4	propionic acid	yes	yes	no				
	82000									
147	10690	0000079-10-7	acrylic acid	no	yes	no		(22)		
148	14650	0000079-38-9	chlorotrifluoroethylene	no	yes	no	ND			(1)
149	19990	0000079-39-0	methacrylamide	no	yes	no	ND			
150	20020	0000079-41-4	methacrylic acid	no	yes	no		(23)		
151	13480	0000080-05-7	2,2-bis(4-hydroxyphenyl)propane	no	yes	no	0,6		Not to be used for the manufacture polycarbonate infant feeding bottles	
	13607									
152	15610	0000080-07-9	4,4'-dichlorodiphenyl sulphone	no	yes	no	0,05			
153	15267	0000080-08-0	4,4'-diaminodiphenyl sulphone	no	yes	no	5			

154	13617 0000080-09-1	4,4'-dihydroxydiphenyl sulphone	no	yes	no	0,05				
	16090									
155	23470 0000080-56-8	$\alpha$ -pinene	no	yes	no					
156	21130 0000080-62-6	methacrylic acid, methyl ester	no	yes	no	(23)				
157	74880 0000084-74-2	phthalic acid, dibutyl ester	yes	no	no	0,3	(32) Only to be used as: (a) plasticizer in reported use materials and articles contacting non-fatty foods; (b) technical support agent in polyolefins in contrations up to 0.05% in the final			
158	23380 0000085-44-9	Phthalic anhydride	yes	yes	no					
	76320									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
159	74560 0000085-68-7	phthalic acid, benzyl butyl ester	yes	no	no	30	(32)	Only to be used as: (a) plasticiser in repeated use materials and articles; (b) plasticiser in single-use materials and articles contacting non-fatty foods except for infant formulae and follow-on formulae as defined by Directive 2006/141/EC or pro- cessed cereal-based foods and baby foods for infants and young children as defined by Directive 2006/125/EC; (c) technical support agent in concentrations up to 0,1 % in the final product.	(7)	
160	84800 0000087-18-3	salicylic acid, 4- tert-butylphenyl ester	yes	no	yes	12				
161	92160 0000087-69-4	tartaric acid	yes	no	no					
162	65520 0000087-78-5	mannitol	yes	no	no					

163	66400	0000088-24-4	2,2'-methylene bis(4-ethyl-6- tert- butylphenol)	yes	no	yes	(13)			
164	34895	0000088-68-6	2-aminobenzamide	yes	no	no	0,05			
165	23200	0000088-99-3	<i>o</i> -phthalic acid	yes	yes	no				
			74480							
166	24057	0000089-32-7	pyromellitic anhydride	no	yes	no	0,05			
167	25240	0000091-08-7	2,6-toluene diisocyanate	no	yes	no	(17)			
168	13075	0000091-76-9	2,4-diamino-6- phenyl-1,3,5- 15310	no	yes	no	5			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
169	16240	0000091-97-4	3,3'-dimethyl- 4,4'-diisocyanatobiphenyl	no	yes	no	(17)	1 mg/kg in final product expressed as isocyanate moiety		(10)
170	16000	0000092-88-6	4,4'-dihydroxybiphenyl	no	yes	no	6			
171	38080	0000093-58-3	benzoic acid, methyl ester	yes	no	no				
172	37840	0000093-89-0	benzoic acid, ethyl ester	yes	no	no				
173	60240	0000094-13-3	4-hydroxybenzoic acid, propyl ester	yes	no	no				
174	14740	0000095-48-7	<i>o</i> -cresol	no	yes	no				
175	20050	0000096-05-9	methacrylic acid, allyl ester	no	yes	no	0,05			
176	11710	0000096-33-3	acrylic acid, methyl ester	no	yes	no	(22)			

177	16955	0000096-49-1	ethylene carbonate	no	yes	no	30	SML expressed as ethyleneglycol. Residual content of 5 mg ethylene carbonate per kg of hydrogel with max 10 g of hydrogel in contact with 1 kg of food.		
178	92800	0000096-69-5	4,4'-thiobis(6-tert-butyl-3-methylphenol)	yes	no	yes	0,48			
179	48800	0000097-23-4	2,2'-dihydroxy-5,5'-dichlorodiphenylmethane	yes	no	yes	12			
180	17160	0000097-53-0	eugenol	no	yes	no	ND			
181	20890	0000097-63-2	methacrylic acid, ethyl ester	no	yes	no	(23)			
182	19270	0000097-65-4	itaconic acid	no	yes	no				
183	21010	0000097-86-9	methacrylic acid, isobutyl ester	no	yes	no	(23)			
184	20110	0000097-88-1	methacrylic acid, butyl ester	no	yes	no	(23)			
185	20440	0000097-90-5	methacrylic acid, diester with ethyleneglycol	no	yes	no	0,05			
186	14020	0000098-54-4	4-tert-butylphenol	no	yes	no	0,05			
187	22210	0000098-83-9	$\alpha$ -methylstyrene	no	yes	no	0,05			
188	19180	0000099-63-8	isophthalic acid dichloride	no	yes	no	(27)			
189	60200	0000099-76-3	4-hydroxybenzoic acid, methyl ester	yes	no	no				
190	18880	0000099-96-7	<i>p</i> -hydroxybenzoic acid	no	yes	no				
191	24940	0000100-20-9	terephthalic acid dichloride	no	yes	no	(28)			
192	23187	—	phthalic acid	no	yes	no	(28)			
193	24610	0000100-42-5	styrene	no	yes	no				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
194	13150	0000100-51-6	benzyl alcohol	no	yes	no				
195	37360	0000100-52-7	benzaldehyde	yes	no	no				(3)
196	18670	0000100-97-0	hexamethylenetetramine	yes	yes	no	(15)			
		59280								

197	20260	0000101-43-9	methacrylic acid, cyclohexyl ester	no	yes	no	0,05			
198	16630	0000101-68-8	diphenylmethane-4,4'-diisocyanate	no	yes	no	(17) 1 mg/kg in final product expressed as isocyanate moiety	(10)		
199	24073	0000101-90-6	resorcinol diglycidyl ether	no	yes	no	ND	Not to be used for articles in contact with fatty foods for which simulant D is laid down. For indirect food contact only, behind a PET layer.	(8)	
200	51680	0000102-08-9	N,N'-diphenylthiourea	yes	no	yes	3			
201	16540	0000102-09-0	diphenyl carbonate	no	yes	no	0,05			
202	23070	0000102-39-6	(1,3-phenylenedioxy) diacetic acid	no	yes	no	0,05		(1)	
203	13323	0000102-40-9	1,3-bis(2-hydroxyethoxy) benzene	no	yes	no	0,05			
204	25180	0000102-60-3 92640	N,N,N',N'-tetrakis(2-hydroxypropyl)ethylenediamine	yes	yes	no				
205	25385	0000102-70-5	triallylamine	no	yes	no	40 mg/kg hydrogel at a ratio of 1 kg food to a maximum of 1,5 grams of hydrogel. Only to be used in hydro- gels intended for non-direct food contact use.			
206	11500	0000103-11-7	acrylic acid, 2-ethylhexyl ester	no	yes	no	0,05			
207	31920	0000103-23-1	adipic acid, bis(2-ethylhexyl) ester	yes	no	yes	18 (32)		(2)	
208	18898	0000103-90-2	N-(4-hydroxyphenyl) acetamide	no	yes	no	0,05			
209	17050	0000104-76-7	2-ethyl-1-hexanol	no	yes	no	30			
210	13390 14880	0000105-08-8	1,4-bis(hydroxymethyl)	no	yes	no				
(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)
211	23920	0000105-38-4	propionic acid, vinyl ester	no	yes	no		(1)		(11)

212	14200 41840	0000105-60-2	caprolactam	yes	yes	no	(4)
213	82400	0000105-62-4	1,2-propyleneglycol dioleate	yes	no	no	
214	61840	0000106-14-9	12-hydroxystearic acid	yes	no	no	
215	14170	0000106-31-0	butyric anhydride	no	yes	no	
216	14770	0000106-44-5	<i>p</i> -cresol	no	yes	no	
217	15565	0000106-46-7	1,4-dichlorobenzene	no	yes	no	12
218	11590	0000106-63-8	acrylic acid, isobutyl ester	no	yes	no	(22)
219	14570 16750	0000106-89-8	epichlorohydrin	no	yes	no	ND 1 mg/kg in final product (10)
220	20590	0000106-91-2	methacrylic acid, 2,3-epoxypropyl ester	no	yes	no	0,02 (10)
221	40570	0000106-97-8	butane	yes	no	no	
222	13870	0000106-98-9	1-butene	no	yes	no	
223	13630	0000106-99-0	butadiene	no	yes	no	ND 1 mg/kg in final product
224	13900	0000107-01-7	2-butene	no	yes	no	
225	12100	0000107-13-1	acrylonitrile	no	yes	no	ND
226	15272 16960	0000107-15-3	ethylenediamine	no	yes	no	12
227	16990 53650	0000107-21-1	ethyleneglycol	yes	yes	no	(2)
228	13690	0000107-88-0	1,3-butanediol	no	yes	no	
229	14140	0000107-92-6	butyric acid	no	yes	no	
230	16150	0000108-01-0	dimethylaminoethanol	no	yes	no	18
231	10120	0000108-05-4	acetic acid, vinyl ester	no	yes	no	12
232	10150	0000108-24-7	acetic anhydride	yes	yes	no	

30280										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
233	24850	0000108-30-5	succinic anhydride	no	yes	no				
234	19960	0000108-31-6	maleic anhydride	no	yes	no		(3)		
235	14710	0000108-39-4	<i>m</i> -cresol	no	yes	no				
236	23050	0000108-45-2	1,3-phenylenediamine	no	yes	no	ND			
237	15910	0000108-46-3	1,3-dihydroxybenzene	no	yes	no	2,4			
	24072									
238	18070	0000108-55-4	glutaric anhydride	no	yes	no				
239	19975	0000108-78-1	2,4,6-triamino-1,3,5-triazine	yes	yes	no	30			
	25420									
	93720									
240	45760	0000108-91-8	cyclohexylamine	yes	no	no				
241	22960	0000108-95-2	phenol	no	yes	no				
242	85360	0000109-43-3	sebacic acid, dibutyl ester	yes	no	no	(32)			
243	19060	0000109-53-5	isobutyl vinyl ether	no	yes	no	0,05			(10)
244	71720	0000109-66-0	pentane	yes	no	no				
245	22900	0000109-67-1	1-pentene	no	yes	no	5			
246	25150	0000109-99-9	tetrahydrofuran	no	yes	no	0,6			
247	24820	0000110-15-6	succinic acid	yes	yes	no				
	90960									
248	19540	0000110-16-7	maleic acid	yes	yes	no	(3)			
	64800									
249	17290	0000110-17-8	fumaric acid	yes	yes	no				
	55120									
250	53520	0000110-30-5	N,N'-ethylenebisstearamide	yes	no	no				

251	53360	0000110-31-6	N,N'-ethylenebisoleamide	yes	no	no				
252	87200	0000110-44-1	sorbic acid	yes	no	no				
253	15250	0000110-60-1	1,4-diaminobutane	no	yes	no				
254	13720	0000110-63-4	1,4-butanediol	yes	yes	no	(30)			
	40580									
255	25900	0000110-88-3	trioxane	no	yes	no	5			
256	18010	0000110-94-1	glutaric acid	yes	yes	no				
	55680									
257	13550	0000110-98-5	dipropylene glycol	yes	yes	no				
	16660									
	51760									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
258	70480	0000111-06-8	palmitic acid, butyl ester	yes	no	no				
259	58720	0000111-14-8	heptanoic acid	yes	no	no				
260	24280	0000111-20-6	sebacic acid	no	yes	no				
261	15790	0000111-40-0	diethylenetriamine	no	yes	no	5			
262	35284	0000111-41-1	N-(2-aminoethyl)ethanolamine	yes	no	no	0,05	Not to be used for articles in contact with fatty foods for which simulant D is laid down. For indirect food contact only, behind a PET layer.		
263	13326	0000111-46-6	diethyleneglycol	yes	yes	no	(2)			
	15760									
	47680									
264	22660	0000111-66-0	1-octene	no	yes	no	15			
265	22600	0000111-87-5	1-octanol	no	yes	no				
266	<u>25510</u>	0000112-27-6	triethyleneglycol	yes	yes	no				

94320										
267	15100	0000112-30-1	1-decanol		no	yes	no			
268	16704	0000112-41-4	1-dodecene		no	yes	no	0,05		
269	<u>25090</u>	0000112-60-7	tetraethyleneglycol		yes	yes	no			
92350										
270	<u>22763</u>	0000112-80-1	oleic acid		yes	yes	no			
69040										
271	52720	0000112-84-5	erucamide		yes	no	no			
272	37040	0000112-85-6	behenic acid		yes	no	no			
273	52730	0000112-86-7	erucic acid		yes	no	no			
274	22570	0000112-96-9	octadecyl isocyanate		no	yes	no	(17) 1 mg/kg in final product expressed as isocyanate moiety	(10)	
275	23980	0000115-07-1	propylene		no	yes	no			
276	19000	0000115-11-7	isobutene		no	yes	no			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
277	18280	0000115-27-5	hexachloroendomethylenetetrahydrophthalic anhydride		no		yes	no	ND	
278	18250	0000115-28-6	hexachloroendomethylenetetrahydrophthalic acid		no		yes	no	ND	
279	<u>22840</u>	0000115-77-5	pentaerythritol		yes		yes	no		
71600										
280	73720	0000115-96-8	phosphoric acid, trichloroethyl ester		yes		no	no	ND	
281	25120	0000116-14-3	tetrafluoroethylene		no		yes	no	0,05	
282	18430	0000116-15-4	hexafluoropropylene		no		yes	no	ND	
283	74640	0000117-81-7	phthalic acid, bis(2-ethylhexyl)		yes		no	no	1,5 (32) Only to be used as:	(7)

ester

(a) plasticiser in repeated use materials and articles contacting non-fatty foods;

(b) technical support agent in concentrations up to 0,1 % in the final product.

284	84880	0000119-36-8	salicylic acid, methyl ester	yes	no	no	30			
285	66480	0000119-47-1	2,2'-methylene bis(4-methyl-6- tert-butylphenol)	yes	no	yes	(13)			
286	38240	0000119-61-9	benzophenone	yes	no	yes	0,6			
287	60160	0000120-47-8	4-hydroxybenzoic acid, ethyl ester	yes	no	no				
288	24970	0000120-61-6	terephthalic acid, dimethyl ester	no	yes	no				
289	<u>15880</u>	0000120-80-9	1,2-dihydroxybenzene	no	yes	no	6			
		24051								
290	55360	0000121-79-9	gallic acid, propyl ester	yes	no	no	(20)			
291	19150	0000121-91-5	isophthalic acid	no	yes	no	(27)			
292	94560	0000122-20-3	triisopropanolamine	yes	no	no	5			
293	23175	0000122-52-1	phosphorous acid, triethyl ester	no	yes	no	ND	1 mg/kg in final product		(1)
294	93120	0000123-28-4	thiodipropionic acid, didodecyl ester	yes	no	yes	(14)			
295	15940	0000123-31-9	1,4-dihydroxybenzene	yes	yes	no	0,6			
	18867									
	48620									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
296	23860	0000123-38-6	propionaldehyde	no	yes		no			
297	23950	0000123-62-6	propionic anhydride	no	yes		no			
298	14110	0000123-72-8	butyraldehyde	no	yes		no			

299	63840	0000123-76-2	levulinic acid	yes	no	no
300	30045	0000123-86-4	acetic acid, butyl ester	yes	no	no
301	89120	0000123-95-5	stearic acid, butyl ester	yes	no	no
302	12820	0000123-99-9	azelaic acid	no	yes	no
303	12130	0000124-04-9	adipic acid	yes	yes	no
	31730					
304	14320	0000124-07-2	caprylic acid	yes	yes	no
	41960					
305	15274	0000124-09-4	hexamethylenediamine	no	yes	no
	18460					2,4
306	88960	0000124-26-5	stearamide	yes	no	no
307	42160	0000124-38-9	carbon dioxide	yes	no	no
308	91200	0000126-13-6	sucrose acetate isobutyrate	yes	no	no
309	91360	0000126-14-7	sucrose octaacetate	yes	no	no
310	16390	0000126-30-7	2,2-dimethyl-1,3-propanediol	no	yes	no
	22437					0,05
311	16480	0000126-58-9	dipentaerythritol	yes	yes	no
	51200					
312	21490	0000126-98-7	methacrylonitrile	no	yes	no
313	16650	0000127-63-9	diphenyl sulphone	yes	yes	no
	51570					3
314	23500	0000127-91-3	$\beta$ -pinene	no	yes	no
315	46640	0000128-37-0	2,6-di-tert-butyl-p-cresol	yes	no	no
316	23230	0000131-17-9	phthalic acid, diallyl ester	no	yes	no
						ND

317	(8)	48880	0000131-53-3	2,2'-dihydroxy-4-methoxybenzophenone	yes	no	yes			
318	(8)	48640	0000131-56-6	2,4-dihydroxybenzophenone	yes	no	no			
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
319	61360	0000131-57-7	2-hydroxy-4-methoxybenzophenone	yes	no	yes		(8)		
320	37680	0000136-60-7	benzoic acid, butyl ester	yes	no	no				
321	36080	0000137-66-6	ascorbyl palmitate	yes	no	no				
322	63040	0000138-22-7	lactic acid, butyl ester	yes	no	no				
323	11470	0000140-88-5	acrylic acid, ethyl ester	no	yes	no		(22)		
324	83700	0000141-22-0	ricinoleic acid	yes	no	yes	42			
325	10780	0000141-32-2	acrylic acid, n-butyl ester	no	yes	no		(22)		
326	12763	0000141-43-5	2-aminoethanol	yes	yes	no	0,05		Not to be used for articles in contact with fatty foods for which simulant D is laid down. For indirect food contact only, behind a PET layer.	
	35170									
327	30140	0000141-78-6	acetic acid, ethyl ester	yes	no	no				
328	65040	0000141-82-2	malonic acid	yes	no	no				
329	59360	0000142-62-1	hexanoic acid	yes	no	no				
330	19470	0000143-07-7	lauric acid	yes	yes	no				
	63280									
331	22480	0000143-08-8	1-nonanol	no	yes	no				
332	69760	0000143-28-2	oleyl alcohol	yes	no	no				
333	22775	0000144-62-7	oxalic acid	yes	yes	no	6			
	69920									
334	17005	0000151-56-4	ethyleneimine	no	yes	no	ND			

335	68960	0000301-02-0	oleamide	yes	no	no				
336	15095	0000334-48-5	n-decanoic acid	yes	yes	no				
	45940									
337	15820	0000345-92-6	4,4'-difluorobenzophenone	no	yes	no	0,05			
338	71020	0000373-49-9	palmitoleic acid	yes	no	no				
339	86160	0000409-21-2	silicon carbide	yes	no	no				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
340	47440	0000461-58-5	dicyanodiamide	yes	no	no				
341	<u>13180</u>	0000498-66-8	bicyclo[2.2.1]hept-2-ene	no	yes	no	0,05			
	22550									
342	14260	0000502-44-3	caprolactone	no	yes	no	(29)			
343	23770	0000504-63-2	1,3-propanediol	no	yes	no	0,05			
344	<u>13810</u>	0000505-65-7	1,4-butanediol formal	no	yes	no	ND			(10)
	21821									
345	35840	0000506-30-9	arachidic acid	yes	no	no				
346	10030	0000514-10-3	abietic acid	no	yes	no				
347	<u>13050</u>	0000528-44-9	trimellitic acid	no	yes	no	(21)			
	25540									
348	<u>22350</u>	0000544-63-8	myristic acid	yes	yes	no				
	67891									
349	25550	0000552-30-7	trimellitic anhydride	no	yes	no	(21)			
350	63920	0000557-59-5	lignoceric acid	yes	no	no				
351	21730	0000563-45-1	3-methyl-1-butene	no	yes	no	ND	Only to be used in polypropylene		(1)
352	16360	0000576-26-1	2,6-dimethylphenol	no	yes	no	0,05			

353	42480	0000584-09-8	carbonic acid, rubidium salt	yes	no	no	12			
354	25210	0000584-84-9	2,4-toluene diisocyanate	no	yes	no	(17)	1 mg/kg in final product expressed as isocyanate moiety		(10)
355	20170	0000585-07-9	methacrylic acid, tert-butyl ester	no	yes	no	(23)			
356	18820	0000592-41-6	1-hexene	no	yes	no	3			
357	13932	0000598-32-3	3-buten-2-ol	no	yes	no	ND	Only to be used as a co-monomer for the preparation of polymeric additive		(1)
358	14841	0000599-64-4	4-cumylphenol	no	yes	no	0,05			
359	<u>15970</u>	0000611-99-4	4,4'-dihydroxybenzophenone	yes	yes	no	(8)			
	48720									
360	57920	0000620-67-7	glycerol triheptanoate	yes	no	no				
361	18700	0000629-11-8	1,6-hexanediol	no	yes	no	0,05			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
362	14350	0000630-08-0	carbon monoxide	no	yes	no				
363	16450	0000646-06-0	1,3-dioxolane	no	yes	no	5			
364	15404	0000652-67-5	1,4:3,6-dianhydrosorbitol	no	yes	no	5	Only to be used as a co-monomer in poly(ethylene-co-isosorbide terephthalate)		
365	11680	0000689-12-3	acrylic acid, isopropyl ester	no	yes	No	(22)			
366	22150	0000691-37-2	4-methyl-1-pentene	no	yes	no	0,05			
367	16697	0000693-23-2	n-dodecanedioic acid	no	yes	no				
368	93280	0000693-36-7	thiodipropionic acid, dioctadecyl ester	yes	no	yes	(14)			
369	12761	0000693-57-2	12-aminododecanoic acid	no	yes	no	0,05			

370	21460	0000760-93-0	methacrylic anhydride	no	yes	no	(23)	
371	<u>11510</u>	0000818-61-1	acrylic acid, monoester with ethyleneglycol	no	yes	no	(22)	
	11830							
372	18640	0000822-06-0	hexamethylene diisocyanate	no	yes	no	(17) 1 mg/kg in final product expressed as isocyanate moiety	(10)
373	22390	0000840-65-3	2,6-naphthalenedicarboxylic acid, dimethyl ester	no	yes	no	0,05	
374	21190	0000868-77-9	methacrylic acid, monoester with ethyleneglycol	no	yes	no	(23)	
375	15130	0000872-05-9	1-decene	no	yes	no	0,05	
376	66905	0000872-50-4	N-methylpyrrolidone	yes	no	no		
377	12786	0000919-30-2	3-aminopropyltriethoxysilane	no		no	Residual extractable content of 3- aminopropyltriethoxysilane to be less than 3 mg/kg filler when used for the reactive surface treatment of inorganic fillers. SML = 0,05 mg/kg when used for the surface treatment of materials and articles.	
378	21970	0000923-02-4	N-methylolmethacrylamide	no		no		
379	21940	0000924-42-5	N-methylolacrylamide	no		no		

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
380	11980	0000925-60-0	acrylic acid, propyl ester	no	yes	no		(22)		
381	15030	0000931-88-4	cyclooctene	no	yes	no	0,05		Only to be used in polymers contacting foods for which simulant A is laid down	
382	19490	0000947-04-6	laurolactam	no	yes	no	5			
383	72160	0000948-65-2	2-phenylindole	yes	no	yes	15			
384	40000	0000991-84-4	2,4-bis(octylmercapto)-6-(4-hydroxy-3,5-di-tert-butylanilino)-1,3,5-triazine	yes	no	yes	30			

385	11530	0000999-61-1	acrylic acid, 2-hydroxypropyl ester	no	yes	no	0,05	SML expressed as the sum of acrylic acid, 2-hydroxypropyl ester and acrylic acid, 2-hydroxyisopropyl ester. It may contain up to 25 % (m/m) of acrylic acid, 2-hydroxyisopropyl ester (CAS No 0002918-23-2).	(1)	
386	55280	0001034-01-1	gallic acid, octyl ester	yes	no	no	(20)			
387	26155	0001072-63-5	1-vinylimidazole	no	yes	no	0,05		(1)	
388	25080	0001120-36-1	1-tetradecene	no	yes	no	0,05			
389	22360	0001141-38-4	2,6-naphthalenedicarboxylic acid	no	yes	no	5			
390	55200	0001166-52-5	gallic acid, dodecyl ester	yes	no	no	(20)			
391	22932	0001187-93-5	perfluoromethyl perfluorovinyl ether	no	yes	no	0,05	Only to be used in anti-stick coatings		
392	72800	0001241-94-7	phosphoric acid, diphenyl 2-ethylhexyl ester	yes	no	yes	2,4			
393	37280	0001302-78-9	bentonite	yes	no	no				
394	41280	0001305-62-0	calcium hydroxide	yes	no	no				
395	41520	0001305-78-8	calcium oxide	yes	no	no				
396	64640	0001309-42-8	magnesium hydroxide	yes	no	no				
397	64720	0001309-48-4	magnesium oxide	yes	no	no				
398	35760	0001309-64-4	antimony trioxide	yes	no	no	0,04	SML expressed as antimony	(6)	
399	81600	0001310-58-3	potassium hydroxide	yes	no	no				
400	86720	0001310-73-2	sodium hydroxide	yes	no	no				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
401	24475	0001313-82-2	sodium sulphide	no	yes	no				
402	96240	0001314-13-2	zinc oxide	yes	no	no				
403	96320	0001314-98-3	zinc sulphide	yes	no	no				

404	67200	0001317-33-5 molybdenum disulphide	yes	no	no								
405	16690	0001321-74-0 divinylbenzene	no	yes	no	ND	SML expressed as the sum of divinylbenzene and ethylvinylbenzene.	(1)					
It may contain up to 45 % (m/m) of ethylvinylbenzene.													
406	83300	0001323-39-3 1,2-propyleneglycol monostearate	yes	no	no								
407	87040	0001330-43-4 sodium tetraborate	yes	no	no	(16)							
408	82960	0001330-80-9 1,2-propyleneglycol monooleate	yes	no	no								
409	62240	0001332-37-2 iron oxide	yes	no	no								
410	62720	0001332-58-7 kaolin	yes	no	no								
411	42080	0001333-86-4 carbon black	yes	no	no	Primary particles of 10 – 300 nm which are aggregated to a size of 100 – 1 200 nm which may form agglomerates within the size distribution of 300 nm – mm. Toluene extractables: maximum 0,1 %, determined according to ISO method 6209. UV absorption of cyclohex-ane extract at 386 nm: < 0,02 AU for a 1 cm cell or < 0,1 AU for a 5 cm cell, determined according to a generally recognized method of analysis. Benzo(a)pyrene content: max 0,25 mg/kg carbon black. Maximum use level of carbon black in the polymer: 2,5 % w/w.							
412	45200	0001335-23-5 copper iodide	yes	no	no	(6)							
413	35600	0001336-21-6 ammonium hydroxide	yes	no	no								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)			
414	87600	0001338-39-2 sorbitan monolaurate		yes	no	no							
415	87840	0001338-41-6 sorbitan monostearate		yes	no	no							
416	87680	0001338-43-8 sorbitan monooleate		yes	no	no							
417	85680	0001343-98-2 silicic acid		yes	no	no							
418	34720	0001344-28-1 aluminium oxide		yes	no	no							

419	92150	0001401-55-4	tannic acids	yes	no	no	According to the JECFA specifications			
420	19210	0001459-93-4	isophthalic acid, dimethyl ester	no	yes	no	0,05			
421	13000	0001477-55-0	1,3-benzenedimethanamine	no	yes	no	0,05			
422	38515	0001533-45-5	4,4'-bis(2-benzoxazolyl)stilbene	yes	no	yes	0,05 (2)			
423	22937	0001623-05-8	Perfluoropropylperfluorovinyl ether	no	yes	no	0,05			
424	15070	0001647-16-1	1,9-decadiene	no	yes	no	0,05			
425	10840	0001663-39-4	acrylic acid, tert-butyl ester	no	yes	no	(22)			
426	<u>13510</u>	0001675-54-3	2,2-bis(4-hydroxyphenyl) propane bis(2,3-epoxypropyl) ether	no	yes	no	In compliance with Commission Regulation (EC) No 1895/2005 <sup>(1)</sup>			
	13610									
427	18896	0001679-51-2	4-(hydroxymethyl)-1-cyclohexene	no	yes	no	0,05			
428	95200	0001709-70-2	1,3,5-trimethyl-2,4,6-tris(3,5-di-tert- butyl-4-hydroxybenzyl) benzene	yes	no	no				
429	13210	0001761-71-3	bis(4-aminocyclohexyl)methane	no	yes	no	0,05			
430	95600	0001843-03-4	1,1,3-tris(2-methyl-4-hydroxy- 5-tert-butylphenyl) butane	yes	no	yes	5			
431	61600	0001843-05-6	2-hydroxy-4-n-octyloxybenzophenone	yes	no	yes	(8)			
432	12280	0002035-75-8	adipic anhydride	no	yes	no				
433	68320	0002082-79-3	octadecyl 3-(3,5-di-tert-butyl-4- hydroxyphenyl)propionate	yes	no	yes	6			
434	20410	0002082-81-7	methacrylic acid, diester with 1,4- butanediol	no	yes	no	0,05			
435	14230	0002123-24-2	caprolactam, sodium salt	no	yes	no	(4)			
436	19480	0002146-71-6	lauric acid, vinyl ester	no	yes	no				
437	11245	0002156-97-0	acrylic acid, dodecyl ester	no	yes	no	0,05 (2)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

438	38875	0002162-74-5 bis(2,6-diisopropylphenyl) carbodiimide	yes	no	no	0,05	For indirect food contact only, behind a PET layer
439	21280	0002177-70-0 methacrylic acid, phenyl ester	no	yes	no	(23)	
440	21340	0002210-28-8 methacrylic acid, propyl ester	no	yes	no	(23)	
441	38160	0002315-68-6 benzoic acid, propyl ester	yes	no	no		
442	13780	0002425-79-8 1,4-butanediol bis(2,3-epoxypropyl)ether	no	yes	no	ND	Residual content = 1 mg/kg in final product expressed as epoxygroup. Molecular weight is 43 Da. (10)
443	12788	0002432-99-7 11-aminoundecanoic acid	no	yes	no	5	
444	61440	0002440-22-4 2-(2'-hydroxy-5'-methylphenyl)benzotriazole	yes	no	no	(12)	
445	83440	0002466-09-3 pyrophosphoric acid	yes	no	no		
446	10750	0002495-35-4 acrylic acid, benzyl ester	no	yes	no	(22)	
447	20080	0002495-37-6 methacrylic acid, benzyl ester	no	yes	no	(23)	
448	11890	0002499-59-4 acrylic acid, n-octyl ester	no	yes	no	(22)	
449	49840	0002500-88-1 dioctadecyl disulphide	yes	no	yes	3	
450	24430	0002561-88-8 sebacic anhydride	no	yes	no		
451	66755	0002682-20-4 2-methyl-4-isothiazolin-3-one	yes	no	no	0,5	Only to be used in aqueous polymer dispersions and emulsions
452	38885	0002725-22-6 2,4-bis(2,4-dimethylphenyl)-6-(2-hydroxy-4-n-octyloxyphenyl)-1,3,5-triazine	yes	no	no	0,05	Only to be used in aqueous foods
453	26320	0002768-02-7 vinyltrimethoxysilane	no	yes	no	0,05	(10)
454	12670	0002855-13-2 1-amino-3-aminomethyl-3,5,5-trimethylcyclohexane	no	yes	no	6	
455	20530	0002867-47-2 methacrylic acid, 2-(dimethylamino)-ethyl ester	no	yes	no	ND	

456	10810	0002998-08-5	acrylic acid, sec-butyl ester	no	yes	no	(22)
457	20140	0002998-18-7	methacrylic acid, sec-butyl ester	no	yes	no	(23)
458	36960	0003061-75-4	behenamide	yes	no	no	
(1)	(1)	(3)	(4)	(5)	(6)	(7)	(10)
459	459	0003135-18-0	3,5-di-tert-butyl-4- hydroxybenzylphosphonic acid, dioctadecyl ester	yes	no	no	
460	460	0003173-53-3	cyclohexyl isocyanate	no	yes	no	(17) 1 mg/kg in final product expressed as isocyanate moiety (10)
461	461	0003173-72-6	1,5-naphthalene diisocyanate	no	yes	no	(17) 1 mg/kg in final product expressed as isocyanate moiety (10)
462	462	0003195-78-6	N-vinyl-N-methylacetamide	no	yes	no	0,02 (1)
463	463	0003290-92-4	1,1,1-trimethylolpropane trimethacrylate	no	yes	no	0,05
464	464	0003293-97-8	2-hydroxy-4-n- hexyloxybenzophenone	yes	no	yes	(8)
465	465	0003333-62-8	7-[2H-naphtho-(1,2-D)triazol-2-yl]-3-phenylcoumarin	yes	no	no	
466	466	0003648-18-8	di-n-octyltin dilaurate	yes	no	no	(10)
467	467	0003724-65-0	crotonic acid	yes	yes	no	0,05 (1)
468	468	0003825-26-1	perfluorooctanoic acid, ammonium salt	yes	no	no	Only to be used in repeated use articles, sintered at high temperatures
469	469	0003864-99-1	2-(2'-hydroxy-3,5'-di-tert- butylphenyl)-5-chlorobenzotriazole	yes	no	yes	(12)
470	470	0003896-11-5	2-(2'-hydroxy-3'-tert-butyl-5'- methylphenyl)-5-chlorobenzotriazole	yes	no	yes	(12)

471	471	0003965-55-7	5-sulphoisophthalic acid, monosodium salt, dimethyl ester	no	yes	no	0,05			
472	472	0004066-02-8	2,2'-methylenebis(4-methyl-6- cyclohexylphenol)	yes	no	yes	(5)			
473	473	0004074-90-2	adipic acid, divinyl ester	no	yes	no	ND	5 mg/kg in final product. Only to be used as co-monomer.		(1)
474	474	0004080-31-3	1-(3-chloroallyl)-3,5,7-triaza-1- azoniaadamantane chloride	yes	no	no	0,3			
475	475	0004098-71-9	1-isocyanato-3- isocyanatomethyl-3,5,5- trimethylcyclohexane	no	yes	no	(17)	1 mg/kg in final product expressed as isocyanate moiety		(10)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
476	16570	0004128-73-8	diphenylether-4,4'-diisocyanate	no	yes	no		(17)	1 mg/kg in final product expressed as isocyanate moiety	(10)
477	46720	0004130-42-1	2,6-di-tert-butyl-4-ethylphenol	yes	no	yes	4,8			(1)
478	60180	0004191-73-5	4-hydroxybenzoic acid, isopropyl ester	yes	no	no				
479	12970	0004196-95-6	azelaic anhydride	no	yes	no				
480	46790	0004221-80-1	3,5-di-tert-butyl-4- hydroxybenzoic acid, 2,4-di-tert-butylphenyl ester	yes	no	no				
481	13060	0004422-95-1	1,3,5-benzenetricarboxylic acid trichloride	no	yes	no	0,05	SML expressed as 1,3,5-benzenetricarboxylic acid		(1)
482	21100	0004655-34-9	methacrylic acid, isopropyl ester	no	yes	no	(23)			
483	68860	0004724-48-5	n-octylphosphonic acid	yes	no	no	0,05			
484	13395	0004767-03-7	2,2-bis(hydroxymethyl) propionic acid	no	yes	no	0,05			(1)
485	13560 15700	0005124-30-1	dicyclohexylmethane-4,4'- diisocyanate	no	yes	no	(17)	1 mg/kg in final product expressed as isocyanate moiety		(10)
486	54005	0005136-44-7	ethylene-N-palmitamide-N'- stearamide	yes	no	no				

487	45640	0005232-99-5	2-cyano-3,3-diphenylacrylic acid, ethyl ester	yes	no	no	0,05		
488	53440	0005518-18-3	N,N'-ethylenebispalmitamide	yes	no	no			
489	41040	0005743-36-2	calcium butyrate	yes	no	no			
490	16600	0005873-54-1	diphenylmethane-2,4'-disocyanate	no	yes	no	(17)	1 mg/kg in final product expressed as isocyanate moiety	(10)
491	82720	0006182-11-2	1,2-propyleneglycol distearate	yes	no	no			
492	45650	0006197-30-4	2-cyano-3,3-diphenylacrylic acid, 2-ethylhexyl ester	yes	no	no	0,05		
493	39200	0006200-40-4	bis(2-hydroxyethyl)-2-hydroxypropyl-3-(dodecyloxy)methylammonium chloride	yes	no	no	1,8		
494	62140	0006303-21-5	hypophosphorous acid	yes	no	no			
495	35160	0006642-31-5	6-amino-1,3-dimethyluracil	yes	no	no	5		
496	71680	0006683-19-8	pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)-propionate]	yes	no	no			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
497	95020	0006846-50-0	2,2,4-trimethyl-1,3-pentanediol diisobutyrate	yes	no	no	5	Only to be used in single-use gloves	
498	16210	0006864-37-5	3,3'-dimethyl-4,4'-diaminodicyclohexylmethane	no	yes	no	0,05	Only to be used in polyamides	(5)
499	19965	0006915-15-7	malic acid	yes	yes	no		In case of use as a monomer only to be used as a co-monomer in aliphatic polyesters up to maximum level of 1 % on a molar basis	
500	65020	0007128-64-5	2,5-bis(5-tert-butyl-2-benzoxazolyl)thiophene	yes	no	yes	0,6		
501	34480	—	aluminium fibers, flakes and powders	yes	no	no			
502	22778	0007456-68-0	4,4'-oxybis(benzenesulphonyl azide)	no	yes	no	0,05		(1)

503	46080	0007585- 20 0	$\beta$ -dextrin	yes	no	no					
504	86240	0007631- 86-9	silicon dioxide	yes	no	no					For synthetic amorphous silicon dioxide: primary particles of 1 – 100 nm which are aggregated to a size of 0,1 – 1 $\mu\text{m}$ which may form agglomerates within the size distribution of 0,3 $\mu\text{m}$ to the mm size.
505	86480	0007631- 90-5	sodium bisulphite	yes	no	no	(19)				
506	86920	0007632- 00-0	sodium nitrite	yes	no	no	0,6				
507	59990	0007647- 01-0	hydrochloric acid	yes	no	no					
508	86560	0007647- 15-6	sodium bromide	yes	no	no					
509	23170	0007664- 38-2	phosphoric acid	yes	yes	no					
510	<u>72640</u> 12789	0007664- 41-7	ammonia	yes	yes	no					
511	35320 <u>91920</u>	0007664- 93-9	sulphuric acid	yes	no	no					
512	81680	0007681- 11-0	potassium iodide	yes	no	no	(6)				
513	86800	0007681- 82-5	sodium iodide	yes	no	no	(6)				
514	91840	0007704- 34-9	sulphur	yes	no	no					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
515	<u>26360</u> 95855	0007732-18-5	water	yes	yes	no			In compliance with Directive 98/83/EC (2)		
516	86960	0007757-83-7	sodium sulphite	yes	no	no	(19)				
517	81520	0007758-02-3	potassium bromide	yes	no	no					
518	35845	0007771-44-0	arachidonic acid	yes	no	no					

519	87120	0007772-98-7	sodium thiosulphate	yes	no	no	(19)
520	65120	0007773-01-5	manganese chloride	yes	no	no	
521	58320	0007782-42-5	graphite	yes	no	no	
522	14530	0007782-50-5	chlorine	no	yes	no	
523	45195	0007787-70-4	copper bromide	yes	no	no	
524	24520	0008001-22-7	soybean oil	no	yes	no	
525	62640	0008001-39-6	japan wax	yes	no	no	
526	43440	0008001-75-0	ceresin	yes	no	no	
527	<u>14411</u>	0008001-79-4	castor oil	yes	yes	no	
		42880					
528	63760	0008002-43-5	lecithin	yes	no	no	
529	67850	0008002-53-7	montan wax	yes	no	no	
530	41760	0008006-44-8	candelilla wax	yes	no	no	
531	36880	0008012-89-3	beeswax	yes	no	no	
532	88640	0008013-07-8	soybean oil, epoxidised	yes	no	no	60 30(*) (32) (*) In the case of PVC gas-kets used to seal glass jars containing infant formulae and follow-on formulae as defined by Directive 2006/141/EC or processed cereal- based foods and baby foods for infants and young children as defined by Directive 2006/125/EC, the SML is lowered to 30 mg/kg.Oxirane < 8 %, iodine number < 6.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8) (9) (10) (11)
533	42720	0008015-86-9	carnauba wax	yes	no	no	
534	80720	0008017-16-1	polyphosphoric acids	yes	no	no	

535	24100	0008050-09-7 rosin	yes	yes	no	
	24130					
	24190					
	83840					
536	84320	0008050-15-5 rosin, hydrogenated, ester with	yes	no	no	
537	84080	0008050-26-8 rosin, ester with pentaerythritol	yes	no	no	
538	84000	0008050-31-5 rosin, ester with glycerol	yes	no	no	
539	24160	0008052-10-6 rosin tall oil	no	yes	no	
540	63940	0008062-15-5 lignosulphonic acid	yes	no	no	0,24 Only to be used as dispersant for plastics dispersions
541	58480	0009000-01-5 gum arabic	yes	no	no	
542	42640	0009000-11-7 carboxymethylcellulose	yes	no	no	
543	45920	0009000-16-2 dammar	yes	no	no	
544	58400	0009000-30-0 guar gum	yes	no	no	
545	93680	0009000-65-1 tragacanth gum	yes	no	no	
546	71440	0009000-69-5 pectin	yes	no	no	
547	55440	0009000-70-8 gelatin	yes	no	no	
548	42800	0009000-71-9 casein	yes	no	no	
549	80000	0009002-88-4 polyethylene wax	yes	no	no	
550	81060	0009003-07-0 polypropylene wax	yes	no	no	
551	79920	0009003-11-6 poly(ethylene propylene) glycol 0106392-12-5	yes	no	no	
552	81500	0009003-39-8 polyvinylpyrrolidone	yes	no	no	The substance shall meet the purity criteria as laid down in Commission Directive 2008/84/EC (3)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
553	<u>14500</u>	0009004-34-6	cellulose 43280	yes	yes	no				
554	43300	0009004-36-8	cellulose acetate butyrate	yes	no	no				
555	53280	0009004-57-3	ethylcellulose	yes	no	no				
556	54260	0009004-58-4	ethylhydroxyethylcellulose	yes	no	no				
557	66640	0009004-59-5	methylethylcellulose	yes	no	no				
558	60560	0009004-62-0	hydroxyethylcellulose	yes	no	no				
559	61680	0009004-64-2	hydroxypropylcellulose	yes	no	no				
560	66700	0009004-65-3	methylhydroxypropylcellulose	yes	no	no				
561	66240	0009004-67-5	methylecellulose	yes	no	no				
562	22450	0009004-70-0	nitrocellulose	no	yes	no				
563	78320	0009004-97-1	polyethyleneglycol monoricinoleate	yes	no	yes	42			
564	<u>24540</u>	0009005-25-8	starch, edible 88800	yes	yes	no				
565	61120	0009005-27-0	hydroxyethyl starch	yes	no	no				
566	33350	0009005-32-7	alginic acid	yes	no	no				
567	82080	0009005-37-2	1,2-propyleneglycol alginate	yes	no	no				
568	79040	0009005-64-5	polyethyleneglycol sorbitan monolaurate	yes	no	no				
569	79120	0009005-65-6	polyethyleneglycol sorbitan monoleate	yes	no	no				
570	79200	0009005-66-7	polyethyleneglycol sorbitan monopalmitate	yes	no	no				
571	79280	0009005-67-8	polyethyleneglycol sorbitan monostearate	yes	no	no				
572	79360	0009005-70-3	polyethyleneglycol sorbitan trioleate	yes	no	no				
573	79440	0009005-71-4	polyethyleneglycol sorbitan	yes	no	no				

## tristearate

574	<u>24250</u> 84560	0009006-04-6	rubber, natural	yes	yes	no				
575	76721	0063148-62-9	Polydimethylsiloxane (Mw > 6 800 Da)	yes	no	no	Viscosity at 25 °C not less than 100 cSt ( $100 \times 10^{-6} \text{ m}^2/\text{s}$ )			

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
576	60880	0009032-42-2	hydroxyethylmethylcellulose	yes	no	no				
577	62280	0009044-17-1	isobutylene-butene copolymer	yes	no	no				
578	79600	0009046-01-9	polyethyleneglycol tridecyl ether phosphate	yes	no	no	5	For materials and articles intended for contact with aqueous foods only. Polyethyleneglycol (EO ≤ 11) tridecyl ether phosphate (mono-and dialkyl ester) with a maximum 10 % content of poly- ethyleneglycol (EO ≤ 11) tridecylether.		
579	61800	0009049-76-7	hydroxypropyl starch	yes	no	no				
580	46070	0010016-20-3	α-dextrin	yes	no	no				
581	36800	0010022-31-8	barium nitrate	yes	no	no				
582	50240	0010039-33-5	di-n-octyltin bis(2-ethylhexyl maleate)	yes	no	no	(10)			
583	40400	0010043-11-5	boron nitride	yes	no	no	(16)			
584	<u>13620</u> 40320	0010043-35-3	boric acid	yes	yes	no	(16)			
585	41120	0010043-52-4	calcium chloride	yes	no	no				
586	65280	0010043-84-2	manganese hypophosphite	yes	no	no				
587	68400	0010094-45-8	octadecylerucamide	yes	no	yes	5			

588	64320	0010377-51-2	lithium iodide	yes	no	no	(6)				
589	52645	0010436-08-5	cis-11-eicosenamide	yes	no	no					
590	21370	0010595-80-9	methacrylic acid, 2-sulphoethyl ester	no	yes	no	ND				(1)
591	36160	0010605-09-1	ascorbyl stearate	yes	no	no					
592	34690	0011097-59-9	aluminium magnesium carbonate hydroxide	yes	no	no					
593	44960	0011104-61-3	cobalt oxide	yes	no	no					
594	65360	0011129-60-5	manganese oxide	yes	no	no					
595	19510	0011132-73-3	lignocellulose	no	yes	no					
596	95935	0011138-66-2	xanthan gum	yes	no	no					
(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)	(11)
597	67120	0012001-26-2	mica		yes	no	(no 7)				
598	41600	0012004-14-7	calcium sulphoaluminate 0037293-22-4		yes	no	no				
599	36840	0012007-55-5	barium tetraborate		yes	no	no	(16)			
600	60030	0012072-90-1	hydromagnesite		yes	no	no				
601	35440	0012124-97-9	ammonium bromide		yes	no	no				
602	70240	0012198-93-5	ozokerite		yes	no	no				
603	83460	0012269-78-2	pyrophyllite		yes	no	no				
604	60080	0012304-65-3	hydrotalcite		yes	no	no				
605	11005	0012542-30-2	acrylic acid, dicyclopentenyl ester		no	yes	no	0,05			(1)
606	65200	0012626-88-9	manganese hydroxide		yes	no	no				

607	62245	0012751-22-3 iron phosphide		yes	no	no		Only to be used in PET polymers and copolymers			
608	40800	0013003-12-8 4,4'-butylidene-bis(6-tert-butyl-3-methylphenyl-ditridecyl phos-phite)		yes	no	yes	6				
609	83455	0013445-56-2 pyrophosphorous acid		yes	no	no					
610	93440	0013463-67-7 titanium dioxide		yes	no	no					
611	35120	0013560-49-1 3-aminocrotonic acid, diester with thiobis (2-hydroxyethyl) ether		yes	no	no					
612	16694	0013811-50-2 N,N'-divinyl-2-imidazolidinone		no	yes	no	0,05	(10)			
613	95905	0013983-17-0 wollastonite		yes	no	no					
614	45560	0014464-46-1 cristobalite		yes	no	no					
615	92080	0014807-96-6 talc		yes	no	no					
616	83470	0014808-60-7 quartz		yes	no	no					
617	10660	0015214-89-8 2-acrylamido-2- methylpropanesulphonic acid		no	yes	no	0,05				
618	51040	0015535-79-2 di-n-octyltin mercaptoacetate		yes	no	no		(10)			
619	50320	0015571-58-1 di-n-octyltin bis(2-ethylhexyl mercaptoacetate)		yes	no	no		(10)			
620	50720	0015571-60-5 di-n-octyltin dimaleate		yes	no	no		(10)			
(1)	(2)	(3)	(4)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
621	17110	0016219-75-3 5-ethylidenebicyclo[2,2,1]hept-2-ene	5-ethylidenebicyclo[2,2,1]hept-2-ene	no	yes	no	0,05				(9)
622	69840	0016260-09-6 oleylpalmitamide	oleylpalmitamide	yes	no	yes	5				
623	52640	0016389-88-1 dolomite	dolomite	yes	no	no					
624	18897	0016712-64-4 6-hydroxy-2-naphthalenecarboxylic acid	6-hydroxy-2-naphthalenecarboxylic acid	no	yes	no	0,05				
625	36720	0017194-00-2 barium hydroxide	barium hydroxide	yes	no	no					
626	57800	0018641-57-1 glycerol tribehenate	glycerol tribehenate	yes	no	no					

627	59760	0019569-21-2	huntite	huntite	yes	no	no			
628	96190	0020427-58-1	zinc hydroxide	zinc hydroxide	yes	no	no			
629	34560	0021645-51-2	aluminium hydroxide	aluminium hydroxide	yes	no	no			
630	82240	0022788-19-8	1,2-propyleneglycol dilaurate	1,2-propyleneglycol dilaurate	yes	no	no			
631	59120	0023128-74-7	1,6-hexamethylene-bis(3-(3,5- di-tert-butyl-4-hydroxyphenyl) propionamide)	1,6-hexamethylene-bis(3-(3,5- di-tert-butyl-4-hydroxyphenyl) propionamide)	yes	no	yes	45		
632	52880	0023676-09-7	4-ethoxybenzoic acid, ethyl ester	4-ethoxybenzoic acid, ethyl ester	yes	no	no	3,6		
633	53200	0023949-66-8	2-ethoxy-2'-ethyloxanilide	2-ethoxy-2'-ethyloxanilide	yes	no	yes	30		
634	25910	0024800-44-0	tripropylene glycol	tripropylene glycol	no	yes	no			
635	40720	0025013-16-5	tert-butyl-4-hydroxyanisole	tert-butyl-4-hydroxyanisole	yes	no	no	30		
636	31500	0025134-51-4	acrylic acid, acrylic acid, 2-ethylhexyl ester, copolymer	acrylic acid, acrylic acid2-ethylhexyl ester, copolymer	yes	no	no	0,05 (22)	SML expressed as acrylic acid, 2-ethylhexyl ester	
637	71635	0025151-96-6	pentaerythritol dioleate	pentaerythritol dioleate	yes	no	no	0,05	Not to be used for articles in contact with fatty foods for which simulant D is laid down	
638	<u>23590</u>	0025322-68-3	polyethyleneglycol	polyethyleneglycol	yes	yes	no			
	76960									
639	23651	0025322-69-4	polypropylene glycol	polypropylene glycol	yes	yes	no			
	80800									
640	54930	0025359-91-5	formaldehyde-1-naphthol, copolymer	formaldehyde-1-naphthol, copolymer	yes	no	no	0,05		
(1)	(1)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

641	641	0025513-64-8	mixture of (35-45 % w/w) 1,6-diamino-2,2,4- trimethylhexane and (55-65 % w/w)1,6-diamino- 2,4,4-trimethylhexane	no	yes	no	0,05	(10)
642	642	0025736-61-2	maleic anhydride-styrene, copolymer, sodium salt	yes	no	no	The fraction with molecular weight below 1 000 Da should not exceed 0,05 % (w/w)	
643	643	0026266-57-9	sorbitan monopalmitate	yes	no	no		
644	644	0026266-58-0	sorbitan trioleate	yes	no	no		
645	645	0026401-86-5	mono-n-octyltin tris(isooctyl mercaptoacetate)	yes	no	no	(11)	
646	646	0026401-97-8	di-n-octyltin bis(isooctyl mercaptoacetate)	yes	no	no	(10)	
647	647	0026402-23-3	glycerol monohexanoate	yes	no	no		
648	648	0026402-26-6	glycerol monoctanoate	yes	no	no		
649	649	0026427-07-6	dibutylthiostannoic acid polymer	yes	no	no	Molecular unit = (C <sub>8</sub> H <sub>18</sub> S <sub>3</sub> Sn <sub>2</sub> )n (n = 1,5-2)	
650	650	0026636-01-1	dimethyltin bis(isooctyl mercaptoacetate)	yes	no	no	(9)	
651	651	0026658-19-5	sorbitan tristearate	yes	no	no		
652	652	0026741-53-7	bis(2,4-di-tert-butylphenyl) pentaerythritol diphosphite	yes	no	yes	0,6	
653	653	0026747-90-0	2,4-toluene diisocyanate dimer	no	yes	no	(17) 1 mg/kg in final product expressed as isocyanate moiety	(10)
654	654	0026836-47-5	sorbitol monostearate	yes	no	no		
655	655	0026896-48-0	tricyclodecanedimethanol	no	yes	no	0,05	
656	656	0026914-43-2	styrenesuphonic acid	no	yes	no	0,05	
657	657	0027107-89-7	mono-n-octyltin tris(2-ethylhexyl mercaptoacetate)	yes	no	no	(11)	
658	658	0027176-87-0	dodecylbenzenesulphonic acid	yes	no	no	30	
659	659	0027194-74-7	1,2-propyleneglycol monolaurate	yes	no	no		
660	660	0027458-90-8	di-tert-dodecyl disulphide	yes	no	yes	0,05	

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
661	95360	0027676-62-6	1,3,5-tris(3,5-di-tert-butyl-4-hydroxybenzyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	yes	no	yes	5			
662	25927	0027955-94-8	1,1,1-tris(4-hydroxyphenol)ethane	no	yes	no	0,005	Only to be used in polycarbonates		(1)
663	64150	0028290-79-1	linolenic acid	yes	no	no				
664	95000	0028931-67-1	trimethylolpropane trimethacrylate-methyl methacrylate copolymer	yes	no	no				
665	83120	0029013-28-3	1,2-propyleneglycol monopalmitate	yes	no	no				
666	87280	0029116-98-1	sorbitan dioleate	yes	no	no				
667	55190	0029204-02-2	gadoleic acid	yes	no	no				
668	80240	0029894-35-7	polyglycerol ricinoleate	yes	no	no				
669	56610	0030233-64-8	glycerol monobehenate	yes	no	no				
670	56800	0030899-62-8	glycerol monolaurate diacetate	yes	no	no	(32)			
671	74240	0031570-04-4	phosphorous acid, tris(2,4-di-tert-butylphenyl)ester	yes	no	no				
672	76845	0031831-53-5	polyester of 1,4-butanediol with caprolactone	yes	no	no	(29)	The fraction with molecular weight below 1 000 Da should not exceed 0,5 % (w/w)		(30)
673	53670	0032509-66-3	ethylene glycol bis[3,3-bis(3-tert-butyl-4-hydroxyphenyl)butyrate]	yes	no	yes	6			
674	46480	0032647-67-9	dibenzylidene sorbitol	yes	no	no				
675	38800	0032687-78-8	N,N'-bis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionyl)hydrazide	yes	no	yes	15			
676	50400	0033568-99-9	di-n-octyltin bis(isooctyl maleate)	yes	no	no	(10)			

677	82560	0033587-20-1	1,2-propyleneglycol dipalmitate	yes	no	no				
678	59200	0035074-77-2	1,6-hexamethylene-bis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	yes	no	yes	6			
679	39060	0035958-30-6	1,1-bis(2-hydroxy-3,5-di-tert-butylphenyl)ethane	yes	no	yes	5			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
680	94400	0036443-68-2	triethyleneglycol bis[3-(3-tert-butyl-4-hydroxy-5-methylphenyl) propionate]	yes	no	no	9			
681	18310	0036653-82-4	1-hexadecanol	no	yes	no				
682	53270	0037205-99-5	ethylcarboxymethylcellulose	yes	no	no				
683	66200	0037206-01-2	methylcarboxymethylcellulose	yes	no	no				
684	68125	0037244-96-5	nepheline syenite	yes	no	no				
685	85950	0037296-97-2	silicic acid, magnesium-sodium-fluoride salt	yes	no	no	0,15	SML expressed as fluoride. Only to be used in layers of multi-layer materials not coming into direct contact with food.		
686	61390	0037353-59-6	hydroxymethylcellulose	yes	no	no				
687	<u>13530</u> 13614	0038103-06-9	2,2-bis(4-hydroxyphenyl)propane bis(phthalic anhydride)	no	yes	no	0,05			
688	92560	0038613-77-3	tetrakis(2,4-di-tert-butyl-phenyl)-4,4'-biphenylene diphosphonite	yes	no	yes	18			
689	95280	0040601-76-1	1,3,5-tris(4-tert-butyl-3-hydroxy-2,6-dimethylbenzyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	yes	no	yes	6			
690	92880	0041484-35-9	thiodiethanol bis(3-(3,5-di-tert-	yes	no	yes	2,4			

			butyl-4-hydroxy phenyl) propi- onate)							
691	13600	0047465-97-4	3,3-bis(3-methyl-4-hydroxyphenyl)2-indolinone	no	yes	no	1,8			
692	52320	0052047-59-3	2-(4-dodecylphenyl)indole	yes	no	yes	0,06			
693	88160	0054140-20-4	sorbitan tripalmitate	yes	no	no				
694	21400	0054276-35-6	methacrylic acid, sulphopropyl ester	no	yes	no	0,05			(1)
695	67520	0054849-38-6	monomethyltin tris(isooctyl mercaptoacetate)	yes	no	no	(9)			
696	92205	0057569-40-1	terephthalic acid, diester with 2,2'-methylenebis(4-methyl-6-tert-butylphenol)	yes	no	no				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
697	67515	0057583-34-3	monomethyltin tris(ethylhexyl mercaptoacetate)	yes	no	no		(9)		
698	49595	0057583-35-4	dimethyltin bis(ethylhexyl mercaptoacetate)	yes	no	no		(9)		
699	90720	0058446-52-9	stearoylbenzoylmethane	yes	no	no				
700	31520	0061167-58-6	acrylic acid, 2-tert-butyl-6-(3-tert-butyl-2-hydroxy-5-methylbenzyl)-4-methylphenyl ester	yes	no	yes	6			
701	40160	0061269-61-2	N,N'-bis(2,2,6,6-tetramethyl-4-piperidyl)hexamethylenediamine-1,2-dibromoethane, copolymer	yes	no	no	2,4			
702	87920	0061752-68-9	sorbitan tetrastearate	yes	no	no				
703	17170	0061788-47-4	fatty acids, coco	no	yes	no				

704	77600	0061788-85-0	polyethyleneglycol ester of hydrogenated castor oil	yes	no	no				
705	<u>10599/90A</u>	0061788-89-4	acids, fatty, unsaturated (C <sub>18</sub> ), dimers, non hydrogenated, distilled and non-distilled 10599/91	no	yes	no	(18)			(1)
706	17230	0061790-12-3	fatty acids, tall oil	no	yes	no				
707	46375	0061790-53-2	diatomaceous earth	yes	no	no				
708	77520	0061791-12-6	polyethyleneglycol ester of castor oil	yes	no	no	42			
709	87520	0062568-11-0	sorbitan monobehenate	yes	no	no				
710	38700	0063397-60-4	bis(2-carbobutoxyethyl)tin-bis (isoctyl mercaptoacetate)	yes	no	yes	18			
711	42000	0063438-80-2	(2-carbobutoxyethyl)tin-tris (isoctyl mercaptoacetate)	yes	no	yes	30			
712	42960	0064147-40-6	castor oil, dehydrated	yes	no	no				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
713	43480	0064365-11-3	charcoal, activated	yes	no	no				Only for use in PET at maximum 10 mg/kg of polymer. Same purity requirements as for Vegetable Carbon (E153) set out by Commission Directive 95/45/EC <sup>(4)</sup> with exception of ash contents which can be up to 10% (w/w).
714	84400	0064365-17-9	rosin, hydrogenated, ester with pentaerythritol	yes	no	no				
715	46880	0065140-91-2	3,5-di-tert-butyl-4-	yes	no	no	6			

			hydroxybenzylphosphonic acid, monoethyl ester, calcium salt							
716	60800	0065447-77-0	1-(2-hydroxyethyl)-4-hydroxy- 2,2,6,6-tetramethyl piperidine- succinic acid, dimethyl ester, copolymer	yes	no	no	30			
717	84210	0065997-06-0	rosin, hydrogenated	yes	no	no				
718	84240	0065997-13-9	rosin, hydrogenated, ester with glycerol	yes	no	no				
719	65920	0066822-60-4	N-methacryloyloxyethyl-N,N- dimethyl-N- carboxymethylammonium methacrylate-ethyl methacrylate- cyclohexyl methacrylate-N- vinyl-2-pyrrolidone, copolymers	yes	no	no				
720	67360	0067649-65-4	mono-n-dodecyltin tris(isooctyl mercaptoacetate)	yes	no	no	(25)			
721	46800	0067845-93-6	3,5-di-tert-butyl-4- hydroxybenzoic acid, hexadecyl ester	yes	no	no				
722	17200	0068308-53-2	fatty acids, soya	no	yes	no				
723	88880	0068412-29-3	starch, hydrolysed	yes	no	no				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
724	24903	0068425-17-2	syrups, hydrolysed starch, hydrogenated	no	yes	no			In compliance with the purity criteria for maltitol syrup E 965(ii) as laid down in Commission Directive 2008/60/EC <sup>(5)</sup>	
725	77895	0068439-49-6	polyethyleneglycol (EO = 2-6)  monoalkyl (C <sub>16</sub> -C <sub>18</sub> ) ether				0,05		The composition of this mixture is as follows:  — polyethyleneglycol (EO = 2-6)monoalkyl (C <sub>16</sub> -C <sub>18</sub> ) ether (approximately 28 %),	



729	75105	0068515-49-1 phthalic acid, diesters with primary, saturated C <sub>9</sub> -C <sub>11</sub> alcohols more than 90% C <sub>10</sub> 0026761-40-0	yes    no    no	(26) Only to be used as:  (32) (a) plasticiser in repeated use materials and articles; (b) plasticiser in single-use materials and articles contacting non-fatty foods except for infant formulae and follow-on formulae as defined by Directive 2006/141/EC or pre-cessed cereal-based foods and baby foods or infants and young children as defined by Directive 2006/125/EC; (c) technical support agent in concentrations up to 0,1 % in the final product.	(7)					
730	66930	0068554-70-1 methylsilsesquioxane	yes    no    no	Residual monomer in methylsilsequioxane <1mg methyltrimethoxysilane/kg of methylsilsesquioxane						
731	18220	0068564-88-5 N-heptylaminoundecanoic acid	no    yes    no    0,05		(2)					
732	45450	0068610-51-5 p-cresol-dicyclopentadiene-isobutylene, copolymer	yes    no    yes    5							
733	<u>10599/92A</u> 10599/93	0068783-41-5 acids, fatty, unsaturated (C <sub>18</sub> ), dimers, hydrogenated, distilled and non-distilled	no    yes    no	(18)	(1)					
734	46380	0068855-54-9 diatomaceous earth, soda ash flux-calcined	yes    no    no							
735	40120	0068951-50-8 bis(polyethyleneglycol)-hydroxymethylphosphonate		0,6						
736	50960	0069226-44-4 di-n-octyltin ethyleneglycol bis-(mercaptoproacetate)		(10)						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
737	77370	0070142-34-6 polyethyleneglycol-30 dipolyhydroxystearate		yes	no	no				
738	60320	0070321-86-7 2-[2-hydroxy-3,5-bis(1,1-dimethylbenzyl)phenyl]		yes	no	yes	1,5			

## benzotriazole

739	70000	0070331-94-1	2,2'-oxamidobis[ethyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl)-propionate]	yes	no	no	
740	81200	0071878-19-8	poly[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl]-[(2,2,6,6-tetramethyl-4-piperidyl)-imino]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl) imino]	yes	no	yes	3
741	<u>24070</u>	0073138-82-6	resin acids and rosin acids	yes	yes	no	
		83610					
742	92700	0078301-43-6	2,2,4,4-tetramethyl-20-(2,3-epoxypropyl)-7-oxa-3,20-diazadispiro-[5.1.11.2]-heneicosan-21-one, polymer	yes	no	yes	5
743	38950	0079072-96-1	bis(4-ethylbenzylidene)sorbitol	yes	no	no	
744	18888	0080181-31-3	3-hydroxybutanoic acid-3-hydroxypentanoic acid, copolymer	no	yes	no	The substance is used as product obtained by bacterial fermentation. In compliance with the specifications mentioned in the Table 4 of Annex I
745	68145	0080410-33-9	2,2',2'-nitrilo(triethyl tris(3,3',5,5'-tetra-tert-butyl-1,1'-bi-phenyl-2,2'-diyl)phosphite)	yes	no	yes	5 SML expressed as sum of phosphite and phosphate
746	38810	0080693-00-1	bis(2,6-di-tert-butyl-4-methylphenyl)pentaerythritol	yes	no	yes	5 SML expressed as sum of phosphite and phosphate

## diphosphite

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(89)	(10)	(11)
747	47600	0084030-61-5	di-n-dodecyltin bis(isooctyl mercaptoacetate)	yes	no	yes				
748	12765	0084434-12-8	N-(2-aminoethyl)-β-alanine, sodium salt	no	yes	no	0.0 <sup>z</sup>			
749	66360	0085209-91-2	2,2'-methylene bis(4,6-di-tert-butylphenyl) sodium phosphate	yes	no	yes	5			
750	66350	0085209-93-4	2,2'-methylenebis (4,6-di-tert-butylphenyl) lithium phosphate	yes	no	no	5			
751	81515	0087189-25-1	Poly (zinc glycerolate)	yes	no	no				
752	39890	0087826-41-3	Bis (methylbenzylidene) sorbitol	yes	no	no				
		0069158-41-4								
		0054686-97-4								
		0081541-12-0								
753	62800	0092704-41-1	Kaolin, calcined	yes	no	no				
754	56020	0099880-64-5	Glycerol dibehenate	yes	no	no				
755	21765	0106246-33-7	4,4'-methylenebis (3-chloro-2,6-diethylaniline)	no	yes	no	0.0 <sup>z</sup>			(1)
756	40020	0110553-27-0	2,4-bis (octylthiomethyl)-6-methylphenol	yes	no	yes		(24)		
757	95725	0110638-71-6	Vermiculite, reaction product with citric acid, lithium salt	yes	no	no				
758	38940	0110675-26-8	2,4-bis (dodecylthiomethyl)-6-methylphenol	yes	no	yes		(24)		
759	54309	0118337-09-0	2,2'-ethylidenebis (4,6-di-tert-butylphenyl) fluorophosphonite	yes	no	yes	6			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
760	83595	0119345-01-6	Reaction product of di-tert-butylphosphonite with biphenyl with biphenyl, obtained by condensation of 2,4-di-tert-butylphenol with Friedel Craft reaction product of phosphorous trichloride and biphenyl	yes	no	no	18		Composition:	
									- 4,4'biphenylene-bis[0,0-bis(2,4-di-tert-butylphenyl) phosphonite] (CAS No 0038613-77-3) (36-46% w/w (*)),	
									- 4,3'biphenylene-bis [0,0-bis(2,4-di-tert-	

butylphenyl) phosphonite] (CAS No 0118421-00-4) (17-23% w/w (\*)).

- 3,3'-biphenylene- bis[0,0-bis(2,4-di-tert-butylphenyl) phosphonite] (CAS No 0118421-01-5) (1-5 % w/w (\*)),
- 4-biphenylene-0,0- bis(2,4-di-tert- butylphenyl) phosphonite (CAS No 0091362-37-7) (11-19 % w/w (\*))
- tris(2,4-di-tert- butylphenyl)phosphite (CAS No 0031570-
- 4,4'-biphenylene-0,0- bis(2,4-di-tert-butylphenyl) phosphonate-0,0- bis(2,4-di-tert-butylphenyl) phosphonite (CAS No 0112949-97-0) (< 5 % w/w (\*))
- (\*) Quantity of substance used/quantity of formulation

Other specification:

- Phosphor content of min. 5,4 to max, 10 mg KOH per gram,
- Melt range of 85-110°C

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
761	92930	0120218-34-0	thiodiethanolbis(5-methoxycarbonyl-2,6-dimethyl-1,4-dihydropyridine-3-carboxylate)	yes	no	no	6			

762	31530	0123968-25-2	acrylic acid, 2,4-di-tert-pentyl-6-(1-(3,5-di-tert-pentyl-2-hydroxyphenyl)ethyl)phenyl ester	yes	no	yes	5			
763	39925	0129228-21-3	3,3-bis(methoxymethyl)-2,5-dimethylhexane	yes	no	yes	0,05			
764	13317	0132459-54-2	N,N'-bis[4-(ethoxycarbonyl)phenyl]-1,4,5,8-naphthalenetetracarboxydiimide	no	yes	no	0,05	Purity > 98,1 % w/w. Only to be used as co-monomer (max 4 %) for polyesters (PET, PBT).		
765	49485	0134701-20-5	2,4-dimethyl-6-(1-methylpentadecyl)phenol	yes	no	yes	1			
766	38879	0135861-56-2	bis(3,4-dimethylbenzylidene) sorbitol	yes	no	no				
767	38510	0136504-96-6	1,2-bis(3-aminopropyl) ethylenediamine, polymer with N-butyl-2,2,6,6-tetramethyl-4-piperidinamine and 2,4,6-trichloro-1,3,5-triazine	yes	no	no	5			
768	34850	0143925-92-2	amines, bis(hydrogenated tallow alkyl) oxidised	yes	no	no		Not to be used for articles in contact with fatty foods for which simulant D is laid down. Only to be used in: (a) polyolefins at 0,1% (w/w) concentration and in (b) PET at 0,75% (w/w) concentration.		
769	74010	0145650-60-8	Phosphorous acid, bis(2,4-di-tert-buryl-6-methylphenyl) ethyl ester.	yes	no	yes	5	SML expressed as sum of phosphate and phosphate		
770	51700	0147315-50-2	2-(4,6-diphenyl-1,3,5-triazin-2-yl)-5(hexyloxy) phenol	yes	no	no	0,05			
771	34650	0151841-65-5	Aluminium hydroxybis [2,2'-methylenebis (4,6-di-tert-butylphenyl) phosphate]	yes	no	no	5			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
772	47500	0153250-52-3	N,N'-dicyclohexyl-2,6-naphthalene dicarboxamide	yes	no	no	5			
773	38840	0154862-43-8	bis(2,4-dicumylphenyl) pentaerythritol-diphosphite	yes	no	yes	5	SML expressed as sum of the substance itself, its		

								oxidised form bis(2,4-dicumylphenyl) pentaerythritol-phosphate and its hydrolysis product (2,4-dicumylphenol)
774	95270	0161717-32-4	2,4,6-tris(tert-butyl)phenyl-2-butyl-2-ethyl-1,3-propanediol phosphite	yes	no	yes	2	SML expressed as sum of phosphite, phosphate and the hydrolysis product = TTBP
775	45705	0166412-78-8	1,2-cyclohexanedicarboxylic acid, diisononyl ester	yes	no	no	(32)	
776	76723	0167883-16-1	polydimethylsiloxane, 3-aminopropyl terminated, polymer with dicyclohexylmethane-4,4'-diisocyanate	yes	no	no		The fraction with weight below 1 000 Da should not exceed 1,5 % (w/w)
777	31542	0174254-23-0	acrylic acid, methyl ester, telomer with 1-dodecanethiol, C <sub>16</sub> -C <sub>18</sub> alkyl esters	yes	no	no	0,5 % in final product	(1)
778	71670	0178671-58-4	pentaerythritol tetrakis (2-cyano-3,3-diphenylacrylate)	yes	no	yes	0,05	
779	39815	0182121-12-6	9,9-bis(methoxymethyl)fluorene	yes	no	yes	0,05	(1)

780	81220	0192268-64-7	Poly-[{[6-[N-(2,2,6,6-tetramethyl-4-piperidinyl)-n-butylamino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyyl}(2,2,6,6-tetramethyl-4-piperidinyl)imino]- $\alpha$ -[N,N,N',N'-tetrabutyl-N''-(2,2,6,6-tetramethyl-4-piperidinyl)-N''-{6-(2,2,6,6-tetramethyl-4-piperidinylamino)-hexyl}]-[1,3,5-triazine-2,4,6-triamine]- $\omega$ -N,N,N',N'-tetrabutyl-1,3,5-triazine-2,4-diamine]	yes	no	no	5			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
781	95265	0227099-60-7	1,3,5-tris(4-benzoylphenyl)benzene	yes	no	no	0,05			
782	76725	0661476-41-1	polydimethylsiloxane, 3-aminopropyl terminated, polymer with 1-isocyanato-3-isocyanatomethyl-3,5,5-trimethylcyclohexane	yes	no	no		The fraction with molecular weight below 1 000 Da should not exceed 1 % (w/w)		
783	55910	0736150-63-3	glycerides, castor-oil mono-, hydrogenated, acetates	yes	no	no		(32)		
784	95420	0745070-61-5	1,3,5-tris(2,2-dimethylpropanamido)benzene	yes	no	no	0,05			
785	24910	0000100-21-0	terephthalic acid	no	yes	no		(28)		
786	14627	0000117-21-5	3-chlorophthalic anhydride	no	yes	no	0,05	SML expressed as 3-chlorophthalic acid		
787	14628	0000118-45-6	4-chlorophthalic anhydride	no	yes	no	0,05	SML expressed as		

4-chlorophthalic acid									
788	21498	0002530-85-0	[3-(methacryloxy)propyl] trimethoxysilane	no	yes	no	0,05	Only to be used as a surface treatment agent of inorganic fillers	(1) (11)
789	60027	—	hydrogenated homopolymers and/or copolymers made of 1-hexene and/or 1-octene and/or 1-decene and/or 1-dodecene and/or 1-tetradecene (Mw: 440–12 000)	yes	no	no		Average molecular weight not less than 440 Da. Viscosity at 100 °C not less than 3,8 cSt ( $3,8 \times 10^{-6} \text{ m}^2/\text{s}$ ).	(2)
790	80480	0090751-07-8 0082451-48-7	poly(6-morpholino-1,3,5-triazine-2,4-diyl)-[(2,2,6,6-tetramethyl-4-piperidyl)imino] hexamethylene-[(2,2,6,6-tetramethyl-4-piperidyl)imino]	yes	no	no	5	Average molecular weight not less than 2 400 Da. Residual content of morpholine ≤ 30 mg/kg, of N,N'-bis(2,2,6,6-tetramethylpiperidin-4-yl)hexane-1,6-diamine < 15 000 mg/kg, and of 2,4-dichloro-6-morpholino-1,3,5-triazine ≤ 20 mg/kg.	(16)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10) (11)
791	92470	0106990-43-6	N,N',N'',N'''-tetrakis(4,6-bis (N-butyl-	yes	no	no	0,05		
792	92475	0203255-81-6	3,3',5,5'-tetrakis(tert-butyl)-2,2'-dihydroxybiphenyl, cyclic ester with [3-(3-tert-butyl-4-hydroxy-5-methylphenyl)propyl]oxyphosphonous acid	yes	no	yes	5	SML expressed as the sum of phosphite and phosphate form of the substance and the hydrolysis products	
793	94000	0000102-71-6	triethanolamine	yes	no	no	0,05	SML expressed as the sum of triethanolamine and the hydrochloride adduct expressed as triethanolamine	

794	18117	0000079-14-1	glycolic acid	no	yes	no		For indirect food contact only, behind a PET layer		
795	40155	0124172-53-8	N,N'-bis(2,2,6,6-tetramethyl-4-piperidyl)-N,N'-diformylhexamethylenediamine	yes	no	no	0,05	(2) (12)		
796	72141	0018600-59-4	2,2'-(1,4-phenylene)bis[4H-3,1-benzoxazin-4-one]	yes	no	yes	0,05	SML including the sum of its hydrolysis products		
797	76807	0007328-26-5	polyester of adipic acid with 1,3-butanediol, 1,2-propanediol and 2-ethyl-1-hexanol	yes	no	yes		(31) (32)		
798	92200	0006422-86-2	terephthalic acid, bis(2-ethylhexyl)ester	yes	no	no	60	(32)		
799	77708	—	polyethyleneglycol (EO = 1-50) ethers of linear and branched primary (C <sub>8</sub> -C <sub>22</sub> ) alcohols	yes	no	no	1,8	In compliance with the purity criteria for ethylene oxide as laid down in Directive 2008/84/EC laying down specific purity criteria on food additives other than colours and sweeteners (OJ L 253, 20.9.2008, p. 1)		
800	94425	0000867-13-0	triethyl phosphonoacetate	yes	no	no		Only for use in PET		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
801	30607	—	acids, C <sub>2</sub> -C <sub>24</sub> , aliphatic, linear, monocarboxylic, from natural oils and fats, lithium salt	yes	no	no				
802	33105	0146340-15-0	alcohols, C <sub>12</sub> -C <sub>14</sub> secondary, β-(2-hydroxyethoxy), ethoxylated	yes	no	no	5			(12)

803	33535	0152261-33-1	$\alpha$ -alkenes(C <sub>20</sub> -C <sub>24</sub> ) copolymer with maleic anhydride, reaction product with 4-amino-2,2,6,6-tetramethylpiperidine	yes	no	no				Not to be used for articles in contact with fatty foods for which simulant D is laid down. Not to be used in contact with alcoholic foods.	(13)
804	80510	1010121-89-7	poly(3-nonyl-1,1-dioxo-1-thiopropane-1,3-diyl)-block-poly(x-oleyl-7-hydroxy-1,5-diiminoctane-1,8-diyl), process mixture with x = 1 and/or 5, neutralised with dodecylbenzenesulfonic acid	yes	no	no				Only to be used as polymer production aid in polyethylene (PE), polypropylene (PP) and polystyrene (PS)	
805	93450	—	titanium dioxide, coated with a copolymer of n-octyltrichlorosilane and [ami-Notris (methylenephosphonic acid), penta sodium salt]	yes	no	no				The content of the surface treatment copolymer of the coated titanium dioxide is less than 1 % w/w	
806	14876	0001076-97-7	1,4-cyclohexanedicarboxylic acid	no	yes	no	5			Only to be used for manufacture of polyesters	
807	93485	—	titanium nitride, nanoparticles	yes	no	no				No migration of titanium nitride nanoparticles. Only to be used in PET bottles up to 20 mg/kg. In the PET, the agglomerates have a diameter of 100 – 500 nm consisting of primary titanium nitride nanoparticles; primary particles have a diameter of approximately 20 nm.	
808	38550	0882073-43-0	bis(4-propylbenzylidene) propylsorbitol	yes	no	no	5			SML including the sum of its hydrolysis products	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
809	49080	0852282-89-4	N-(2,6-diisopropylphenyl)-6-[4-(1,1,3,3-tetramethylbutyl)isoquinolin-1,3(2H)-dione	yes	no	yes	0,05		Only for use in PET	(6) (14)	(15)
810	68119		neopentyl glycol, diesters and monoesters with benzoic acid and 2-ethylhexanoic acid	yes	no	no	5	(32)	Not to be used for articles in contact with fatty foods for which simulant D is laid down.		
811	80077	0068441-17-8	polyethylene waxes, oxidised	yes	no	no	60				

812	80350	0124578-12-7	poly(12-hydroxystearic acid)-polyethyleneimine copolymer	yes	no	no		Only to be used in polyethylene terephthalate (PET), polystyrene (PS), high impact polystyrene (HIPS) and polyamide (PA) up to 0,1 % w/w. Prepared by the reaction of poly(12-hydroxystearic acid) with polyethyleneimine.		
813	91530	—	sulphosuccinic acid alkyl ( $C_4-C_{20}$ ) or cyclohexyl diesters, salts	yes	no	no	5			
814	91815	—	sulphosuccinic acid monoalkyl ( $C_{10}-C_{16}$ ) polyethyleneglycol esters, salts	yes	no	no	2			
815	94985	—	trimethylolpropane, mixed tri- esters and diesters with benzoic acid and 2-ethylhexanoic acid	yes	no	no	5 (32)	Not to be used for articles in contact with fatty foods for which simulant D is laid down		
816	45704	—	cis-1,2-cyclohexanedicarboxylic acid,	yes	no	no	5			
817	38507	—	cis-endo-bicyclo[2.2.1]heptane-2,3-dicarboxylic acid, salts	yes	no	no	5	Not to be used with poly ethylene in contact with acidic foods Purity $\geq$ 96 %		
818	21530	—	methylsulphonic acid, salts	no	yes	no	5			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
819	68110	—	Not to be used in polymers	yes	no	no	0,05			contacting fatty foods. Not to be used for articles in contact with fatty foods for which simulant D is laid down. SML expressed as neodecanoic acid.
820	76420	—	pimelic acid, salts	yes	no	no				
821	90810	—	stearoyl-2-lactyllic acid, salts	yes	no	no				

822	71938	—	perchloric acid, salts	yes	no	no	0,05	(4)
823	24889	—	5-Sulphoisophthalic acid, salts	no	yes	no	5	
854	71943	0329238-24-6	perfluoro acetic acid, α-substituted with the copolymer of perfluoro-1,2-propylene glycol and perfluoro-1,1-ethylene glycol, terminated with chlorohexafluoropropoxy groups	yes	no	no		Only to be used in concentrations up to 0,5 % w/w in the polymerization of fluoropolymers that are processed at temperatures at or above 340 °C and are intended for use in repeated use articles
860	71980	0051798-33-5	perfluoro[2-(poly(n-propoxy))propanoic acid]	yes	no	no		Only to be used in the polymerisation of fluoropolymers that are processed at temperatures at or above 265 °C and are intended for use in repeated use articles
861	71990	0013252-13-6	perfluoro[2-(n-propoxy)propanoic acid]	yes	no	no		Only to be used in the polymerisation of fluoropolymers that are processed at temperatures at or above 265 °C and are intended for use in repeated use articles
862	15180	0018085-02-4	3,4-diacetoxy-1-butene	no	yes	no	0,05	SML including the hydrolysis product 3,4-dihydroxy-1-butene. Only for use as a co-monomer for ethyl vinyl alcohol copolymers.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(10)
864	46330	0000056-06-4	2,4-diamino-6-hydroxypyrimidine	yes	no	no	5	Only to be used in rigid poly(vinyl chloride) (PVC) in contact with non-acidic and

865	40619	0025322-99-0	(butyl acrylate, methyl methacrylate, butyl methacrylate) copolymer	yes	no	no	Only to be used in rigid poly(vinyl chloride) (PVC) at a maximum level of 1 %			
866	40620	—	(butyl acrylate, methyl methacrylate) copolymer, cross-linked with allyl methacrylate	yes	no	no	Only to be used in rigid poly(vinyl chloride) (PVC) at a maximum level of 7 %			
867	40815	0040471-03-2	(butyl methacrylate, ethyl acrylate, methyl methacrylate) copolymer	yes	no	no	Only to be used in rigid poly(vinyl chloride) (PVC) at a maximum level of 2 %			
868	53245	0009010-88-2	(ethyl acrylate, methyl methacrylate) copolymer	yes	no	no	Only to be used in rigid poly(vinyl chloride) (PVC) at a maximum level of 2 %			
869	66763	0027136-15-8	(butyl acrylate, methyl methacrylate, styrene) copolymer	yes	no	no	Only to be used in rigid poly(vinyl chloride) (PVC) at a maximum level of 3 %			
870	95500	0160535-46-6	N,N',N"-tris(2-methylcyclohexyl)-1,2,3-propane-tricarboxamide	yes	no	no	5			
875	80345	0058128-22-6	poly(12-hydroxystearic acid) stearate	yes	no	yes	5			
878	31335	—	acids, fatty (C <sub>8</sub> -C <sub>22</sub> ) from animal or vegetable fats and oils, esters with branched alcohols, aliphatic, monohydric, saturated, primary (C <sub>3</sub> -C <sub>22</sub> )	yes	no	no				
879	31336	—	acids, fatty (C <sub>8</sub> -C <sub>22</sub> ) from animal or vegetable fats and oils, esters with alcohols, linear, aliphatic, monohydric, saturated, primary (C <sub>1</sub> -C <sub>22</sub> )	yes	no	no				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
880	31348	0085116-93-4	acids, fatty (C <sub>8</sub> -C <sub>22</sub> ), esters	yes	no	no				
881	25187	0003010-96-6	2,2,4,4-tetramethylcyclobutane-1,3-diol	no	yes	no	5			Only for repeated use articles for long term storage at room temperature or below and hotfill

882	25872	0002416-94-6	2,3,6-trimethylphenol	no	yes	no	0,05	
883	22074	0004457-71-0	3-methyl-1,5-pentanediol	no	yes	no	0,05	Only to be used in materials in contact with food at a surface to mass ratio up to 0,5 dm <sup>2</sup> /kg
884	34240	0091082-17-6	alkyl(C <sub>10</sub> -C <sub>21</sub> )sulphonic acid, esters with phenol	yes	No	no	0,05	Not to be used for articles in contact with fatty foods for which simulant D is laid down.
885	45676	0263244-54-8	cyclic oligomers of (butylene terephthalate)	yes	No	No		Only to be used in poly(ethylene terephthalate) (PET), poly(butylene terephthalate) (PBT), polycarbonate (PC), polystyrene (PS) and rigid poly(vinyl chloride) (PVC) plastics in concentrations up to 1 % w/w, in contact with aqueous, acidic and alcoholic foods, for long term storage at room temperature.

(<sup>1</sup>) OJL 302,  
19.11.2005, p. 28. (<sup>2</sup>)  
OJL 330, 5.12.1998, p.  
32. (<sup>3</sup>) OJL 253,  
20.9.2008, p. 1.  
(<sup>4</sup>) OJL 226,  
22.9.1995, p. 1. (<sup>5</sup>) OJ  
L 158, 18.6.2008, p.

2/5 مجموعة القيود المفروضة على المواد الجدول رقم 1 يوضح القيود المفروضة على مجموعة تحتوي على المعلومات التالية:

العمود 1 (رقم المجموعة): العدد المشار إليه في العمود 9 في الجدول رقم 1

العمود 2 (رقم المادة): العدد المشار إليه في العمود 1 في الجدول رقم 1

العمود 3: يوضح حدود الهجرة الخاصة ويعبر عن ذلك بـ ملغ / كغ.

ND ترمز إلى أن المادة غير قابلة للكشف.

العمود 4 (خصائص المجموعة): يحتوي على إشارة إلى اعتماد الوزن الجزيئي للمادة التي تشكل الأساس للحصول على النتيجة.

Table 2

(1)	(2)	(3)	(4)
Group Restriction No.	FCM substance No.	SML (T) [mg/kg]	Group restriction specification
1	128	6	expressed as acetaldehyde
	211		
2	89	30	expressed as ethyleneglycol
	227		
	263		
3	234	30	expressed as maleic acid
	248		
4	212	15	Expressed as caprolactam
	435		
5	137	3	Expressed as the sum of the substances
	472		
6	412	1	Expressed as iodine
	512		

	513 588		
7	19 20	1.2	Expressed as tertiary amine
8	317 318 319 359 431 464	6	Expressed as the sum of substances
9	650 695 697 698 720	0.18	Expressed as tin

(1)	(2)	(3)	(4)
	28		
	29		
	30		
	31		
	32		
	33		
10	466	0.006	Expressed as tin
	582		
	618		
	619		
	620		
	646		
	676736		
	66		
11	645	1.2	Expressed as tin
	657		
	444		
12	469	30	Expressed as the sum of substances
	470		
	163		
13	285	1.5	Expressed as the sum of substances
	294		
14	368	5	Expressed as the sum of substances
	98		
15	196	15	Expressed as formaldehyde

	407 583 584 599	6	Expressed as boron without prejudice to the provisions of Directive 98/83/EC
16	4 167 169 198 274 354 372 460 461 475 476 485 490 653	ND	Expressed as isocyanate moiety
17	705 733	0.05	Expressed as the some of the substances
18	505 516 519	10	Expressed as SO <sub>2</sub>
19	290 386 390	30	Expressed as the sum of substances
20	347	5	Expressed as trimellitic acid

(1)	(2)	(3)	(4)
22	349 70 147 176 218 323 325 365 371 380 425 446 448 456 636	6	Expressed as acryloic acid
23	150 156 181 183 184 355 370 374 439 440	6	Expressed as methacrylic acid

	447 457 482		
24	756 758	5	Expressed as the sum of substances
25	720 747	0.05	sum of mono-n-dodecyltin tris(isooctylmercaptoacetate), di-n-dodecyltin bis(isooctyl mercaptoacetate), mono-dodecyltin trichloride and di-dodecyltin dichloride) expressed as the sum of mono- and di-dodecyltin chloride
26	728 729	9	Expressed as the sum of substances
27	188 291	5	Expressed as isophthalic acid
28	191 192 785	7.5	Expressed as terephthalic acid
29	342 672	0.05	Expressed as the sum of 6-hydroxyhexanoic acid and caprolactone
30	254 672	5	Expressed as 1,4-butanediol
31	73 797	30	Expressed as the sum of substances
32	8 72 72 138	60	Expressed as the sum of substances

140	
157	
159	
207	
242	
283	
532	
670	
728	
729	
775	
783	
797	
798	
810	
815	

ملاحظات التحقق من مطابقة مواد التعبئة و التغليف للمواصفات 3/5

الجدول 3 : ملاحظات التتحقق من المطابقة و يحتوي على المعلومات التالية:

العمود 1 (رقم الملاحظة): يحتوي على رقم تعريف للملاحظة وهو العدد المشار إليه في العمود 11 في الجدول رقم 1.

العمود 2: يحتوي على بعض الملاحظات حول التتحقق من مطابقة المواد عند الاختبار و حدود الهجرة.

Table (3):

(1)	(2)
Note No.	Notes on verification of compliance
(1)	Verification of compliance by residual content per food contact surface area (QMA) pending the availability of an analytical method.
(2)	There is a risk that the SML or OML could be exceeded in fatty food simulants.
(3)	There is a risk that the migration of the substance deteriorates the organoleptic characteristics of the food in contact and then, that the final product does not comply with Section 3(1)c of the General Regulation.
(4)	Compliance testing when there is a fat contact should be performed using saturated fatty food simulants as simulant D
(5)	Compliance testing when there is a fat contact should be performed using isoocetane as substitute of simulant D2 (unstable)
(6)	Migration limit might be exceeded at very high temperature.
(7)	If testing in food is performed, Appendix V 1.4 shall be taken into account.
(8)	Verification of compliance by residual content per food contact surface area (QMA); QMA = 0,005 mg/6 dm
(9)	Verification of compliance by residual content per food contact surface area (QMA) pending the availability of analytical method for migration testing. The ratio surface to quantity of food shall be lower than 2dm <sup>2</sup> /kg
(10)	Verification of compliance by residual content per food contact surface area (QMA) in case of reaction with food or stimulant
(11)	Only a method of analysis for the determination of the residual monomer in the treated filler is available

(12)	There is a risk that the SML could be exceeded from polyolefins.
(13)	Only a method for determination of the content in polymer and a method for determination of the starting substances in food simulants are available
(14)	There is a risk that the SML could be exceeded from plastics containing more than 0,5 % w/w of the substance
(15)	There is a risk that the SML could be exceeded in contact with foods with high alcoholic content.
(16)	There is a risk that the SML could be exceeded from low-density polyethylene (LDPE) containing more than 0,3 % w/w of the substance when in contact with fatty foods
(17)	Only a method for determination of the residual content of the substance in the polymer is available

4/5 مواصفات تفصيلية عن بعض مواد التعبئة والتغليف.

الجدول 4 : المواصفات التفصيلية عن مواد التعبئة و التغليف وتحتوي على المعلومات التالية  
 العمود 1 (رقم المادة): يحتوي على رقم تعريف فريد للمواد والمشار إليها في العمود 1 في الجدول 1.  
 العمود 2: يحتوي على مواصفات مفصلة عن المواد.

**Table (4):**

(1)		(2)
FCM Substance No.		Detailed specification on the substance
744	Definition	The copolymers are produced by the controlled fermentation of Alcaligenes eutrophus using mixtures of glucose and propanoic acid as carbon sources. The organism used has not been genetically engineered and has been derived from a single wildtype organism Alcaligenes eutrophus strain H16 NCIMB 10442. Master stocks of the organism are stored as freeze-dried ampoules. A submaster/working stock is prepared from the master stock and stored in liquid nitrogen and used to prepare inocula for the fermenter. Fermenter samples will be examined daily both microscopically and for any changes in colonial morphology on a variety of agars at different temperatures. The copolymers are isolated from heat treatment bacteria by controlled digestion of the other cellular components, washing and drying. These copolymers

		are normally offered as formulated, melt formed granules containing additives such as nucleating agents, plasticisers, fillers, stabilisers and pigments which all conform to the general and individual specifications
	Chemical name	Poly(3-D-hydroxybutanoate-co-3-D-hydroxypentanoate)
	CAS number	0080181-31-3
	Structural formula	$  \begin{array}{ccccccc}  & & & \text{CH}_3 & & & \\  & & &   & & & \\  & \text{CH}_3 & \text{O} & & \text{CH}_2 & \text{O} & \\  &   &    & &   &    & \\  (-\text{O}-\text{CH}-\text{CH}_2-\text{C}-)_m - (\text{O}-\text{CH}-\text{CH}_2-\text{C}-)_n  \end{array}  $ <p>where n/(m + n) greater than 0 and less or equal to 0,25</p>
	Average molecular weight	Not less than 150 000 Daltons (measured by gel permeation chromatography)
	Assay	Assay Not less than 98 % poly(3-D-hydroxybutanoate-co-3-D-hydroxy-pentanoate) analysed after hydrolysis as a mixture of 3-D-hydroxybutanoic and 3-D-hydroxypentanoic acids
	Description	White to off-white powder after isolation
	Characteristics Identification tests: Solubility	Soluble in chlorinated hydrocarbons such as chloroform or dichloromethane but practically insoluble in ethanol, aliphatic alkanes and water
	Restriction	QMA for crotonic acid is 0,05 mg/6 dm
	Purity	Prior to granulation the raw material copolymer powder must contain:
	- nitrogen,	Not more than 2 500 mg/kg of plastic
	- zinc,	Not more than 100 mg/kg of plastic

	- copper,	Not more than 5 mg/kg of plastic
	- lead,	Not more than 2 mg/kg of plastic
	- arsenic,	Not more than 1 mg/kg of plastic
	- chromium.	Not more than 1 mg/kg of plastic

**- 6 طرق الفحص والاختبار:**

تجرى الاختبارات طبقاً للمواصفة القياسية الخلبيجة التي تعتمدتها الهيئة بالبند 2/2

**- 7 النقل والتخزين:**

1/7 أن يتم نقلها وتخزينها تحت ظروف ملائمة بعيداً عن ضوء الشمس المباشر ودرجات الحرارة العالية والرطوبة النسبية المرتفعة ومصادر التلوث.

**- 8 البيانات الإيضاحية:**

1/8 ضرورة وضع علامة الصلاحية للامسة الأغذية (درجة غذائية  ) على منتجات مواد التع包ة والتغليف ،المصنعة من المواد البلاستيكية او المبطنة بالبلاستيك الملمس للغذاء مباشرة

2/8 يجب كتابة البيانات الإيضاحية التالية على بطاقة أغلفة العبوات البلاستيكية التي تستخدم لتعبئة المواد الغذائية:

1/2/8 نوع المادة البلاستيكية.

2/2/8 الوزن أو الحجم أو السعة أو العدد أو الأبعاد حسب نوع العبوة.

3/2/8 الغرض ومجال الاستخدام.

4/2/8 إرشادات للاستعمال.

5/2/8 التحذيرات إن وجدت.

### المصطلحات الفنية

Styrene monomer	أحادي الإستيارين .....
Acrylonitrile monomer .....	أحادي الأكريلونيتريبل .....
Food Simulant	المواد المحاكية للغذاء
Specific Migration	الهجرة الخاصة
Overall Migration	الهجرة العامة
Vinyle chloride monomer.....	أحادي كلوريد الفينيل .....
Stacking .....	الرص .....
Oxygen permeability .....	انفاذية الأكسجين .....
Light transmission .....	انفاذية الضوء .....
Gasses and vapors permeability ...	انفاذية الغازات والأبخرة .....
Water vapor transmission .....	انفاذية بخار الماء .....
Mechanical vibration .....	اهتزاز ميكانيكي .....
Polymers .....	بوليمرات .....
Creep .....	ترحف .....
Deformation .....	تشوه .....
Dimensional stability .....	ثبات بعدى .....
Food grade .....	درجة غذائية .....
Plastic package.....	عبوة بلاستيكية .....

Plastic material .....	.....	مادة بلاستيكية .....
Stabilizers .....	.....	مبنيات .....
Plasticizers .....	.....	ملدنات .....
Antioxiden.....	.....	مضادات أكسدة .....
Impact resistance.....	.....	مقاومة التصادم .....
Colouring materials.....	.....	مواد ملونة .....
Migration.....	.....	هجرة .....

**المراجع:**

- COMMISSION REGULATION (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food.