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Ufficio federale della sicurezza alimentare e di veterinaria USAV

Allegato 9 dell'ordinanza del DFI sui materiali e gli oggetti destinati a entrare in contatto con le derrate alimentari

Elenco delle sostanze autorizzate nella fabbricazione di materiali e oggetti di silicone e requisiti in merito

Versione: 2.0

Entrata in vigore: 1 dicembre 2019

Elenco delle sostanze autorizzate nella fabbricazione di materiali e oggetti di silicone e requisiti in merito

1 Elenco delle sostanze

1.1 Spiegazione relativa alle colonne della tabella 1

La tabella 1 contiene le seguenti informazioni:

Colonna 1 N. sostanza: numero di identificazione della sostanza negli allegati 2, 9 e 10 della presente ordinanza.

Colonna 2 Denominazione della sostanza: denominazione chimica.

Colonna 3 N. CAS: numero CAS *(Chemical Abstracts Service)*.

Colonna 4 N. di riferimento della Commissione europea per la sostanza nell'ambito dei materiali per imballaggi.

Colonna 5 Utilizzo come:

- I sostanza di partenza (monomero) (M),
- II ausiliari di polimerizzazione (AP) o
- III additivo (AD)

Colonna 6 Parte A o B

Colonna 7 LMS [mg/kg]: limite di migrazione specifica applicabile alla sostanza. È espresso in mg di sostanza per kg di derrata alimentare e contrassegnato «NR» (non rilevabile) se la sostanza è una di quelle per cui la migrazione non è consentita. La conformità è stabilita mediante metodi idonei di prova della migrazione, selezionati conformemente all'articolo 11 del regolamento (CE) n. 882/2004, che possono confermare l'assenza di migrazione al di sopra di un determinato limite di rilevamento. Se non sono stati fissati limiti di rilevabilità specifici per determinate sostanze o gruppi di sostanze, si applica un limite di rilevabilità di 0,01 mg/kg. Tale limite si applica a un gruppo di composti, se strutturalmente e tossicologicamente correlati (in particolare isomeri o composti con lo stesso gruppo funzionale) o a singole sostanze che non sono correlate e comprende gli eventuali trasferimenti (set-off)..

Alle sostanze per le quali non sono indicati limiti di migrazione specifica o altre restrizioni si applica un limite generico di migrazione specifica pari a 60 mg/kg.

Colonna 8 LMS(T) (n. restrizione di gruppo): numero di identificazione del gruppo di sostanze al quale si applica la restrizione di gruppo di cui alla tabella 2 colonna 1 del allegato 10 (inchiostri per imballaggi).

Colonne 9 Restrizioni e specifiche: altre restrizioni diverse dal limite di migrazione specifica e specifiche applicabili alla sostanza.

Qualora una sostanza figuri nell'elenco come composto singolo ma rientri anche in un termine più generico, a tale sostanza si applicano le restrizioni che la riguardano in quanto composto singolo.

1.2 Significato delle abbreviazioni utilizzate

Le abbreviazioni utilizzate negli elenchi hanno il seguente significato:

DL = limite di rilevabilità del metodo di analisi

EO = ossido di etilene

FP = prodotto finito

LMS = limite di migrazione specifica: quantità massima autorizzata di una data sostanza rilasciata da un materiale o un oggetto nelle derrate alimentari o nei simulanti alimentari

LMS(T) = limite di migrazione specifica totale: somma massima autorizzata di determinate sostanze rilasciate nelle derrate alimentari o nei simulanti alimentari, espressa come totale del gruppo delle sostanze indicate

QMS = quantità massima di sostanza residua ammessa nel materiale o nell'oggetto finito espressa in mg per 6 dm^2

Tabella 1 Elenco delle sostanze

1	2	3	4	5			6		7	8	9
N.	Denominazione della sostanza	N. CAS	PM-REF	Utilizzo			Parte		LMS [mg/kg]	LMS (T) N. restri-zione di gruppo	Restrizioni e specifiche
				I M	II AP	III AD	A	B			
1	Formaldehyde	0000050-00-0	17260 54880			AD	A		15	15	
10	Glycerol	0000056-81-5	18100 55920			AD	A				
13	Palmitic acid	0000057-10-3	22780 70400			AD	A				
14	Stearic acid	0000057-11-4	24550 89040			AD	A				
19	1,2-Propanediol	0000057-55-6	23740 81840	M		AD	A				
31	Ethanol	0000064-17-5	16780 52800	M		AD	A				
32	Formic acid	0000064-18-6	55040			AD	A				
33	Acetic acid	0000064-19-7	10090 30000			AD	A				
34	Benzoic acid	0000065-85-0	13090 37600			AD	A				
39	Methanol	0000067-56-1	21550			AD	A				
40	2-Propanol	0000067-63-0	23830 81882	M		AD	A				
41	Acetone	0000067-64-1	30295			AD	A				
44	Salicylic acid	0000069-72-7	24270 84640			AD	A				
46	1-Propanol	0000071-23-8	23800	M		AD	A				
47	1-Butanol	0000071-36-3	13840	M		AD	A				
68	Propylene oxide	0000075-56-9	24010			AD	A		ND		1 mg/kg nel prodotto finito
82	Dibutyltindilaurate	0000077-58-7	47220		AP			B			

1	2	3	4	5			6		7	8	9
96	Vinyltriethoxysilane	0000078-08-0	26305		AP		A		0,05		Da utilizzarsi unicamente come agente di trattamento delle superfici
97	Silicic acid, tetraethyl ester	0000078-10-4	86050		AP			B			
98	1-Ethynyl-1-cyclohexanol	0000078-27-3	17150		AP			B			
110	Isobutanol	0000078-83-1	18970 62270			AD	A		1		
113	2-Butanol	0000078-92-2				AD	A		1		
114	2-Butanone	0000078-93-3	21827 66655			AD	A		5		
141	Peroxide, bis(α,α-dimethylbenzyl)	0000080-43-3			AP			B			
220	4-Hydroxybenzoic acid, propyl ester	0000094-13-3	60240			AD	A				
223	Benzoyl peroxide	0000094-36-0	46440		AP			B			
228	1H-Benzotriazole	0000095-14-7			AP			B			
233	1,2,4-Trimethylbenzene	0000095-63-6				AD		B			
235	Methyl hydroquinone	0000095-71-6	21850 66680			AD		B			
257	Propanoic acid, 2-methyl-, 2-methylpropyl ester	0000097-85-8				AD	A		0,05		
282	4-Hydroxybenzoic acid, methyl ester	0000099-76-3	60200			AD	A				
292	Ethylbenzene	0000100-41-4	53255			AD	A		0,6		
297	Benzyl alcohol	0000100-51-6	13150			AD	A				
323	Triethanolamine	0000102-71-6	94000			AD	A		0,05		LMS espresso come somma di trietanolammina e addotto cloridrato espresso come trietanolammina
345	p-Toluenesulfonic acid	0000104-15-4	93585			AD		B			
352	2-Ethyl-1-hexanol	0000104-76-7	17050	M		AD	A		30		
401	Butane	0000106-97-8	40570			AD	A				
413	Ethyleneglycol	0000107-21-1	16990 53650			AD	A		30	2	
420	1-Hexyn-3-ol, 3,5-dimethyl-	0000107-54-0				AD		B			
431	1-Methoxypropan-2-ol	0000107-98-2	21620			AD	A		5	37	
435	2-Methyl-4-pentanone	0000108-10-1	66725			AD	A		5		

1	2	3	4	5			6		7	8	9
442	Acetic anhydride	0000108-24-7	10150 30280	M		AD	A				
445	Carbonic acid, cyclic propylene ester	0000108-32-7				AD	A		0,05		
458	Toluene	0000108-88-3	25205 93540			AD	A		1,2		
462	Cyclohexanone	0000108-94-1	14910 45720			AD		B			
487	Tetrahydrofuran	0000109-99-9	25150			AD	A		0,6		
503	Sorbic acid	0000110-44-1	87200			AD	A				
504	Hexane	0000110-54-3	59330			AD		B			
507	2-Butyne-1,4-diol	0000110-65-6			AP			B			
513	Cyclohexane	0000110-82-7	45700			AD	A		1		Tenore di benzène < 0.1% (massa)
551	Ethyleneglycol butyl ether	0000111-76-2	16993 53765			AD	A		5	38	
556	1-Octanol	0000111-87-5	22600	M		AD	A				
572	Diethyleneglycol butyl ether	0000112-34-5	48030			AD	A		5	38	
576	1-Dodecene	0000112-41-4	16704			AD	A		0,05		
594	Oleic acid	0000112-80-1	22763 69040			AD	A				
598	1-Octadecene	0000112-88-9				AD		B			
605	2-Methyl-3-butyn-2-ol	0000115-19-5	21733		AP			B			
610	Pentaerythritol	0000115-77-5	22840 71600			AD	A				
647	Triethylamine	0000121-44-8	94270			AD		B			
684	Acetic acid, butyl ester	0000123-86-4	30045			AD	A				
699	Carbon dioxide	0000124-38-9	42160			AD	A				
743	Hexanoic acid, 2-ethyl-, zinc salt	0000136-53-8				AD		B			
779	2-Aminoethanol	0000141-43-5	12763 35170			AD	A		0,05		Da non utilizzarsi per oggetti a contatto con alimenti grassi per i quali è indicato il simulante D
780	Acetic acid, ethyl ester	0000141-78-6	30140			AD	A				

1	2	3	4	5			6		7	8	9
788	Hexanoic acid	0000142-62-1	59360			AD	A				
794	Lauric acid	0000143-07-7	19470 63280			AD	A				
825	Triethylenediamine	0000280-57-9	94300			AD		B			
831	Aluminium, hydroxybis(stearato)-	0000300-92-5				AD		B			
833	Tin bis(2-ethylhexanoate)	0000301-10-0			AP			B			
845	1-Butanesulfonic acid, nonafluoro-	0000375-73-5				AD		B			
846	Silicon carbide	0000409-21-2	86160			AD	A				
865	Arachidic acid	0000506-30-9	35840			AD	A				
899	Myristic acid	0000544-63-8	22350 67891			AD	A				
902	Isopropyl alcohol, titanium(4+) salt	0000546-68-9				AD		B			
950	Peroxybenzoic acid, tert-butyl ester	0000614-45-9			AP			B			
996	Silicic acid, tetrapropyl ester (H4SiO4)	0000682-01-9			AP			B			
1023	Stannane, dibutyloxo-	0000818-08-6			AP			B			
1039	3-Aminopropyltriethoxysilane	0000919-30-2	12786		AP		A		0,05		Il contenuto residuo estraibile di 3 amminopropiltrietossisilano deve essere inferiore a 3 mg/kg di filler nel caso di utilizzo per il trattamento di superficie reattiva dei filler inorganici. LMS = 0,05 mg/kg nel caso di utilizzo per il trattamento della superficie dei materiali e degli oggetti.
1076	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-	0000999-97-3	18457		AP		A		0,05		
1085	Silane, tris(2-methoxyethoxy)vinyl-	0001067-53-4	25930		AP			B			
1111	Methyltrimethoxysilane	0001185-55-3	22256		AP			B			
1120	Bentonite	0001302-78-9	37280			AD	A				
1124	Calcium hydroxide	0001305-62-0	41280			AD	A				
1125	Calcium oxide	0001305-78-8	41520			AD	A				
1127	Pigment Green 17	0001308-38-9				AD		B			
1132	Magnesium hydroxide	0001309-42-8	64640			AD	A				
1133	Magnesium oxide	0001309-48-4	64720			AD	A				

1	2	3	4	5			6		7	8	9
1135	Potassium hydroxide	0001310-58-3	81600			AD	A				
1137	Sodium hydroxide	0001310-73-2	86720			AD	A				
1139	Zinc oxide	0001314-13-2	96240			AD	A				
1141	Phosphoric anhydride	0001314-56-3	23173			AD	A				
1148	Limestone	0001317-65-3				AD		B			
1151	Zeolites	0001318-02-1				AD		B			
1179	Xylene	0001330-20-7	26370 95945			AD	A		1		
1188	Iron oxide	0001332-37-2	62240			AD	A				
1194	Carbon black	0001333-86-4	42080			AD	A				Particelle primarie di 10 – 300 nm aggregate in 100 – 1’200 nm che potrebbero formare agglomerati all’interno dell’intervallo di distribuzione granulometrica di 300 nm - mm. Sostanze estraibili con il toluene: massimo 0,1 %, determinato secondo il metodo ISO 6209. Assorbimento UV dell’estratto cicloesanico a 386 nm: < 0,02 AU per cella di 1 cm o < 0,1 AU per una cella di 5 cm, determinato secondo un metodo di analisi generalmente riconosciuto. Tenore di benzo(a)pirene: massimo 0,25 mg/kg di Carbon black. Livello massimo di impiego del Carbon black nel silicone: 2,5 % p/p.
1199	2-Butanone, peroxide	0001338-23-4			AP			B			
1202	Sorbitan monostearate	0001338-41-6	87840			AD	A				
1203	Sorbitan monooleate	0001338-43-8	87680			AD	A				
1208	Aluminium oxide	0001344-28-1	34720			AD	A				
1250	1,3,5-Trimethyl-2,4,6-tris(3,5-di-tert-butyl-4-hydroxy-benzyl)benzene	0001709-70-2	95200			AD	A				
1258	Ethylenediamine, N-[3-(trimethoxysilyl)propyl]-	0001760-24-3			AP			B			
1267	Silane, ethoxytrimethyl-	0001825-62-3			AP			B			
1375	[3-(Methacryloxy)propyl] trimethoxysilane	0002530-85-0	21498		AP		A		0,05		Da utilizzarsi unicamente come agente di trattamento delle superfici dei filler inorganici

1	2	3	4	5			6		7	8	9
1379	Cyclotetrasiloxane, 2,4,6,8-tetramethyl-2,4,6,8-tetravinyl-	0002554-06-5			AP			B			
1388	Disiloxane, 1,1,3,3-tetramethyl-1,3-divinyl-	0002627-95-4			AP			B			
1389	1,2-Benzisothiazolin-3-one	0002634-33-5	37520			AD	A		0,5		
1394	2-Methyl-4-isothiazolin-3-one	0002682-20-4	66755			AD	A		0,5		Da utilizzarsi unicamente per polimeri in dispersione acquosa ed emulsioni
1406	Vinyltrimethoxysilane	0002768-02-7	26320		AP		A		0,05		
1447	1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl) propyl]-	0003069-29-2			AP			B			
1478	Propylamine, 3-(diethoxymethylsilyl)-	0003179-76-8			AP			B			
1487	1,1,1-Trimethylolpropane trimethacrylate	0003290-92-4	25840			AD	A		0,05		
1514	Di-n-octyltin dilaurate	0003648-18-8	50640		AP		A		0,006	10	
1648	1-Dodecanol, 2-octyl-	0005333-42-6	68775			AD		B			
1659	2-Isopropyl thioxanthone	0005495-84-1				AD	A		0,05		
1665	Butyl alcohol, titanium(4+) salt	0005593-70-4			AP			B			
1760	2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	0006846-50-0	95020			AD	A		5		Da utilizzarsi unicamente per i guanti monouso
1775	2,5-Bis(5-tert-butyl-2-benzoxazolyl)thiophene	0007128-64-5	38560			AD	A		0,6		
1794	Aluminium fibers, flakes and powders	0007429-90-5	34480			AD	A				
1795	Octanoic acid, cerium salt	0007435-02-1	68640			AD		B			
1796	Silver	0007440-22-4				AD	A		0,05		
1797	Carbon	0007440-44-0				AD		B			
1798	Pigment Metal 2	0007440-50-8				AD	A				
1809	Silicon dioxide	0007631-86-9	86240			AD	A				Per il diossido di silicio sintetico amorfo: particelle primarie di 1 – 100 nm aggregate in 0,1 – 1 µm che potrebbero formare agglomerati all'interno dell'intervallo di distribuzione granulometrica di 0,3 µm – 1 mm
1812	Hydrochloric acid	0007647-01-0	59990			AD	A				
1815	Phosphoric acid	0007664-38-2	23170 72640			AD	A				

1	2	3	4	5			6		7	8	9
1817	Ammonia	0007664-41-7	12789 35320			AD	A				
1818	Sulphuric acid	0007664-93-9	91920			AD	A				
1827	Iron chloride, (FeCl3)	0007705-08-0			AP			B			
1829	Hydrogen peroxide	0007722-84-1				AD	A				
1849	Graphite	0007782-42-5	58320			AD	A				
1872	Paraffin waxes and hydrocarbon waxes	0008002-74-2				AD		B			
1882	Kerosene	0008008-20-6	62860			AD		B			
1885	Petrolatum	0008009-03-8	72060 72062			AD		B			
1887	Paraffin oils	0008012-95-1				AD		B			
1895	Hydrocarbon oils	0008020-83-5				AD		B			
1902	White mineral oil	0008042-47-5				AD		B			
1914	Stoddard solvent	0008052-41-3				AD		B			
1919	Carboxymethylcellulose	0009000-11-7	42640			AD	A				
1929	Casein	0009000-71-9	42800			AD	A				
1931	Polytetrafluoroethylene	0009002-84-0	81160			AD	A				
1934	Ethenol, homopolymer	0009002-89-5	81280			AD	A				
1936	Polyacrylic acid	0009003-01-4	76460 76461			AD	A		6	22	
1937	Acrylic acid, polymers, ammonium salt	0009003-03-6	76460			AD		B			
1940	Poly(ethylene propylene) glycol	0009003-11-6 0106392-12-5	79920			AD	A				
1958	Cellulose	0009004-34-6	14500 43280			AD	A				
1963	Ethylcellulose	0009004-57-3	53280			AD	A				
1966	Hydroxyethylcellulose	0009004-62-0	60560			AD	A				
1969	Methylcellulose	0009004-67-5	66240			AD	A				
1982	Starch, edible	0009005-25-8	24540 88800			AD	A				

1	2	3	4	5			6		7	8	9
1983	Hydroxyethyl starch	0009005-27-0	61120			AD	A				
1986	Polyethyleneglycol sorbitan monolaurate	0009005-64-5	79040			AD	A				
1987	Polyethyleneglycol sorbitan monooleate	0009005-65-6	79120			AD	A				
1988	Polyethyleneglycol sorbitan monopalmitate	0009005-66-7	79200			AD	A				
1989	Polyethyleneglycol sorbitan monostearate	0009005-67-8	79280			AD	A				
1991	Polyethyleneglycol sorbitan tristearate	0009005-71-4	79440			AD	A				
2010	Polyethyleneglycol nonylphenyl ether	0009016-45-9	78400			AD		B			
2022	Oxirane, methyl-, polymer with oxirane, mono-2-propenyl ether	0009041-33-2				AD		B			
2023	Poly[oxy(methyl-1,2-ethanediyl)], α-2-propenyl-ω-hydroxy-	0009042-19-7				AD		B			
2056	Boric acid	0010043-35-3	13620 40320			AD	A		6	16	
2101	Silicic acid, ethyl ester	0011099-06-2		M				B			
2108	Manganese oxide	0011129-60-5	65360			AD	A				
2109	Xanthan gum	0011138-66-2	95935			AD	A				
2110	Mica	0012001-26-2	67120			AD	A				
2217	Titanium dioxide	0013463-67-7	93440			AD	A				
2231	Propylamine, 3-(trimethoxysilyl)-	0013822-56-5			AP			B			
2237	Aluminium, tris(2,4-pentanedionato)-	0013963-57-0				AD		B			
2258	Talc	0014807-96-6	92080			AD	A				
2259	Quartz	0014808-60-7	83470			AD	A				
2279	Di-n-octyltin dimaleate	0015571-60-5	50720		AP		A		0,006	10	
2328	Platinate(2-), hexachloro-, dihydrogen(OC-6-11)-	0016941-12-1			AP			B			
2372	Octanoic acid, zirconium salt	0018312-04-4	68730			AD		B			
2391	Hexanoic acid, 2-ethyl-, iron salt	0019583-54-1				AD		B			
2404	Zinc hydroxide	0020427-58-1	96190			AD	A				
2419	Aluminium hydroxide	0021645-51-2	34560			AD	A				

1	2	3	4	5			6		7	8	9
2428	2-Ethylhexanoic acid, zirconium salt	0022464-99-9	54220			AD		B			
2447	Cerium-2-ethylhexanoate	0024593-34-8				AD		B			
2521	Dipropyleneglycol	0025265-71-8 0000110-98-5	13550 51760			AD	A				
2528	Polyethyleneglycol	0025322-68-3	23590 76960			AD	A				
2529	Polypropyleneglycol	0025322-69-4	23651 80800			AD	A				
2534	Stearic acid, ester with lactic acid bimol, ester, sodium salt	0025383-99-7				AD	A				E481
2542	Triisooctylamine	0025549-16-0			AP			B			
2589	3(2H)-Isothiazolone, 5-chloro-2-methyl-	0026172-55-4	43760			AD	A		0,05		
2601	Poly(isobutyl acrylate)	0026335-74-0	80365			AD		B			
2660	Dodecylbenzenesulphonic acid	0027176-87-0	52000			AD	A		30		
2672	Poly(oxy-1,2-ethanediyl), α-methyl-ω-(2-propenyloxy)-	0027252-80-8				AD		B			
2673	Poly(oxy-1,2-ethanediyl), α-acetyl-ω-2-propenyl-	0027252-87-5				AD		B			
2675	Poly(oxy-1,2-ethanediyl), α-2-propenyl-ω-hydroxy-	0027274-31-3				AD		B			
2678	Poly(oxy-1,2-ethanediyl), α-methyl-ω-[3-[1,3,3,3-tetra-methyl-1-[(trimethylsilyl)oxy] disiloxanyl] propyl]-	0027306-78-1				AD		B			
2716	Copper, [hydrogen phthalocyaninesulfonato(2-)]-	0028901-96-4						B			
2790	Glycerol monostearate	0031566-31-1	18115 57520			AD	A				
2847	Pentanedinitrile, 2-bromo-2-(bromomethyl)-	0035691-65-7				AD	A		1		
3032	Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	0052624-57-4				AD		B			
3100	Poly(oxy-1,2-ethanediyl), α-(1-oxo-9-octadecenyl)-ω-hy-droxy-, ether with D-glucitol (6:1), (all-Z)-	0057171-56-9				AD		B			
3153	Poly(oxy-1,2-ethanediyl), α-[1,3-dimethyl-1-(2-methyl-pro-pyl)hexyl]-ω-hydroxy-	0061702-78-1				AD		B			
3167	2-Ethylhexanoic acid, rare earth salts	0061788-37-2				AD		B			

1	2	3	4	5			6		7	8	9
3181	Fatty acids, coco, sulfoethyl esters, sodium salts	0061789-32-0				AD		B			
3199	Diatomaceous earth	0061790-53-2	46375			AD	A				
3213	Polyethyleneglycol ester of castor oil	0061791-12-6	77520			AD	A		42		
3263	Siloxanes and silicones, Me 3,3,3-trifluoropropyl	0063148-56-1				AD		B			
3264	Siloxanes and silicones, Me hydrogen	0063148-57-2		M		AD		B			
3265	Siloxanes and silicones, Me Ph	0063148-58-3				AD		B			
3266	Polydimethylsiloxane	0063148-62-9	23547 76721			AD	A				Viscosità a 25 °C non meno di 100 cSt (100 × 10-6 m^2/s)
3314	Naphtha, heavy straight-run (petroleum)	0064741-41-9				AD		B			Solamente per le sostanze che non sono classificate come CMR secondo le note L, N o P del regolamento CLP
3318	Naphtha, solvent-refined light (petroleum)	0064741-84-0				AD		B			Solamente per le sostanze che non sono classificate come CMR secondo le note L, N o P del regolamento CLP
3335	Distillates (petroleum), hydrotreated light	0064742-47-8				AD		B			
3336	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2 % aromatics	0064742-48-9 1174522-20-3				AD		B			
3353	Solvent naphtha (petroleum), medium aliphatic	0064742-88-7				AD		B			
3354	Solvent naphtha (petroleum), light aliphatic	0064742-89-8				AD		B			Solamente per le sostanze che non sono classificate come CMR secondo le note L, N o P del regolamento CLP
3442	Siloxanes and silicones, dimethyl, Me phenethyl	0067762-82-7				AD		B			
3443	Siloxanes and silicones, dimethyl, methyloctadecyl	0067762-83-8	86416	M		AD		B			
3444	Siloxanes and silicones, dimethyl, Me 2-(7-oxabicyclo[4,1,0]hept-3-yl)ethyl	0067762-95-2				AD		B			
3445	Silsesquioxanes, Me Ph	0067763-03-5		M				B			
3446	Alkyl(C10-C13)benzene	0067774-74-7				AD		B			
3494	Siloxanes and silicones, di-Me, Me hydrogen	0068037-59-2		M				B			
3495	Siloxanes and silicones, dimethyl, Me hydrogen, polymers with polyethylene-polypropylene glycol monoacetate allyl ether	0068037-64-9				AD		B			

1	2	3	4	5			6		7	8	9
3496	Siloxanes and silicones, dimethyl, polymers with Me silsesquioxanes	0068037-74-1		M				B			
3497	Siloxanes and silicones, ethyl methyl, methyl 2-phenylpropyl	0068037-77-4				AD		B			
3516	Siloxanes and silicones, dimethyl, vinyl group-terminated	0068083-19-2		M				B			
3531	Alcohols, C11-15-secondary, ethoxylated	0068131-40-8				AD		B			
3601	Fatty acids, C6-19-branched, iron salts	0068308-20-3				AD		B			
3661	Siloxanes and silicones, dimethyl, polymers with Me Ph silsesquioxanes	0068440-81-3		M				B			
3748	Siloxanes and silicones, dimethyl, polymers with methylsilsesquioxanes and polypropyleneglycol monobutyl ether	0068554-64-3	86424			AD		B			
3749	Siloxanes and silicones, dimethyl, polymers with methylsilsesquioxanes and polyethylene-polypropyleneglycol monobutyl ether	0068554-65-4	86422			AD		B			
3750	Siloxanes and silicones, dimethyl, polymers with methylsilsesquioxanes, ethoxy-terminated	0068554-66-5	86418	M				B			
3751	Siloxanes and silicones, dimethyl, polymers with methylsilsesquioxanes, hydroxy-terminated	0068554-67-6	86420	M				B			
3752	Methylsilsesquioxane	0068554-70-1	66930	M			A				Monomero residuo nel metilsilsesquiossano: < 1 mg metiltrimetossisilano/kg di metilsilsesquiossano
3755	Cyclotetrasiloxane, octamethyl-, reaction products with silica	0068583-49-3				AD		B			
3761	Silicic acid, sodium salt, hydrolysis products with chlorotrimethylsilane and dichloroethenylmethylsilane	0068584-83-8				AD		B			
3764	Platinate(2-), hexachloro-, (OC-6-11)-, dihydrogen, reaction products with 2,4,6,8-tetraethenyl-2,4,6,8-tetramethylcyclotetrasiloxane	0068585-32-0			AP			B			
3789	Alkyl (C12-C14)glycidyl ether	0068609-97-2				AD		B			
3829	Diatomaceous earth, soda ash flux-calcined	0068855-54-9	46380			AD	A				
3840	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	0068909-20-6				AD		B			
3871	Siloxanes and silicones, hexyl Me, Me 2-phenylpropyl	0068952-01-2				AD		B			

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3884	Siloxanes and silicones, dimethyl, methoxy Ph, polymers with Phsilsesquioxanes, methoxy-terminated	0068957-04-0		M				B			
3931	Siloxanes and silicones, di-Me, hydroxy-terminated	0070131-67-8	86409	M				B			
3968	Siloxanes and silicones, dimethyl, hydrogen-terminated	0070900-21-9		M				B			
3970	Dimethyl, methyl(polyethylene oxide acetate-capped)-siloxane	0070914-12-4				AD		B			
3995	Siloxanes and silicones, 3-[(2-aminoethyl)amino]propyl Me, dimethyl	0071750-79-3		M				B			
3997	Iodonium, bis(4-dodecylphenyl)-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)	0071786-70-4			AP			B			
4042	Siloxanes and silicones, dimethyl, polymers with Ph silsesquioxanes	0073138-88-2		M				B			
4136	1-Propanamine, 3-(trimethoxysilyl)-N-[3-(trimethoxysilyl)-propyl]-	0082985-35-1			AP			B			
4149	4-Isopropyl thioxanthone	0083846-86-0				AD	A		0,05		
4208	Acids, fatty (C8-C22), esters with pentaerythritol		31348			AD	A				
4262	Iron, C3-13-carboxylate naphthenate complexes	0085763-69-5				AD		B			
4513	Tetraethoxysilane, polymer with hexamethyldisiloxane	0104133-09-7				AD		B			
4523	Siloxanes and silicones, dimethyl, 3-hydroxypropyl group-terminated	0104780-66-7		M				B			
4524	Polydimethylsiloxane, ((2-octyldodecyl)oxy)-terminated	0104780-71-4				AD		B			
4525	Silsesquioxane Me, ethoxy-terminated	0104780-78-1		M				B			
4689	Dimethylsiloxane, hydroxy-term, with methylhydrogen siloxane and glycidoxypropylytrimethoxysilane	0153890-18-7		M		AD		B			
4949	n-Alkyl(C10-C13)benzenesulphonic acid		33801			AD	A		30		
4951	Alkyl(C8-C22)sulphonic acids		34230			AD	A		6		
4960	Carbonic acid, salts		42500			AD	A				
4987	Glass microballs		55600			AD	A				
5038	Polydimethylsiloxane, γ-hydroxypropylated		76730			AD	A		6		

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5082	Siloxanes and silicones, dimethyl, ethyl hydrogen, reaction product, with polyethyleneglycol monoallyl ether					AD		B			
5169	Soybean oil	0008001-22-7	24520			AD	A				
5229	Glass fibers					AD	A				
8000	Propane	0000074-98-6				AD		B			
8001	2,5-Bis(tert-butylperoxy)2,5-dimethylhexane	0000078-63-7			AP			B			
8002	Bis(4-chlorobenzoyl) peroxide	0000094-17-7			AP			B			
8003	Trimethoxyboroxin	0000102-24-9				AD		B			
8004	Tetrahydronaphthalene	0000119-64-2				AD		B			
8005	Bis(2,4-dichlorobenzoyl) peroxide	0000133-14-2			AP			B			
8007	Fumaric acid, diethyl ester	0000623-91-6				AD		B			
8008	Dioctyltin oxide	0000870-08-6			AP			B			
8009	Bis(4-methylbenzoyl) peroxide	0000895-85-2			AP			B			
8010	Maleic acid, diallyl ester	0000999-21-3				AD		B			
8011	Trimethylsilanol	0001066-40-6			AP			B			
8012	Dibutyltin diacetate	0001067-33-0			AP			B			
8013	Trifluoromethanesulphonic acid	0001493-13-6				AD		B			
8014	Phosphonitrile chloride	0001832-07-1			AP			B			
8015	Methyltriethoxysilane	0002031-67-6			AP			B			
8016	1,1,1,5,5,5-Hexamethyl-3-phenyl-3-(trimethylsilyloxy)-trisiloxane	0002116-84-9		M				B			
8017	Tetraisopropyl zirconate	0002171-98-4			AP			B			
8018	Stearic acid, nickel salt	0002223-95-2				AD		B			
8019	Tris(methyl ethyl ketoxime)vinylsilane	0002224-33-1			AP			B			
8020	Maleic acid, monoallyl ester	0002424-58-0				AD		B			
8021	Trimethoxysilane	0002487-90-3			AP			B			
8022	Bis(2-chlorobenzoyl) peroxide	0003033-73-6			AP			B			
8023	N-[3-(Trimethoxysilyl)propyl]cyclohexanamine	0003068-78-8			AP			B			

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8024	tert-Butyl cumyl peroxide	0003457-61-2			AP			B			
8025	(Triacetoxy)vinylsilane	0004130-08-9			AP			B			
8026	Methyltriacetoxysilane	0004253-34-3			AP			B			
8027	N-(2-Aminoethyl)-3-aminopropyltriethoxysilane	0005089-72-5			AP			B			
8029	Maleic acid, mono(2-ethylhexyl) ester	0007423-42-9			AP			B			
8030	Platinum	0007440-06-4				AD		B			
8031	Rhodium	0007440-16-6				AD		B			
8032	1,3-Divinyl-1,1,3,3-tetramethyldisilazane	0007691-02-3			AP			B			
8033	Polyethyleneglycol monododecyl ether	0009002-92-0				AD		B			
8034	Polyacrylic acid, sodium salt	0009003-04-7				AD		B	6	20	
8035	Polyethyleneglycol monooleyl ether	0009004-98-2				AD		B			
8036	Polyethyleneglycol monostearate	0009004-99-3				AD	A				
8037	Polyethyleneglycol monooctadecyl ether	0009005-00-9				AD		B			
8038	Poly(tetrabutyl titanate)	0009022-96-2			AP			B			
8039	Polyethyleneglycol isotridecyl ether	0009043-30-5				AD		B			
8040	Silicic acid, zirconium salt	0010101-52-7			AP			B			
8041	Tris(trimethylsilyl) phosphate	0010497-05-9			AP			B			
8042	Trimethylsilanol, potassium salt	0010519-96-7				AD		B			
8043	Chromium oxide	0011118-57-3				AD		B			
8044	Cerium oxide	0011129-18-3				AD		B			
8045	Barium zirconate	0012009-21-1				AD		B			
8046	Cerium hydroxide	0012014-56-1				AD		B			
8047	Diiron magnesium tetraoxide	0012068-86-9				AD		B			
8048	Ammonium chloride	0012125-02-9				AD	A				
8049	Diiodo(1,5-cyclooctadiene) platinum	0012266-72-7			AP			B			
8050	Diacetoxydi-tert-butoxysilane	0013170-23-5			AP			B			
8051	2-Ethylhexanoic acid, cobalt salt	0013586-82-8				AD		B			

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8052	Maleic acid, monohexyl ester	0015420-81-2			AP			B			
8053	2-Ethylhexanoic acid, manganese salt	0015956-58-8				AD		B			
8054	1,2-Bis(triethoxysilyl)ethane	0016068-37-4			AP			B			
8055	Ethyltriacetoxysilane	0017689-77-9			AP			B			
8056	Cesium hydroxide	0021351-79-1			AP			B			
8057	Methyltris(methyl ethyl ketoxime)silane	0022984-54-9			AP			B			
8058	Butyl titanate	0023355-24-0			AP			B			
8059	Tetrapropyl zirconate	0023519-77-9			AP			B			
8060	Triethoxy(3-ureidopropyl)silane	0023779-32-0			AP			B			
8061	Dichlorodimethylsilane, polymer with trichloromethylsilane and trichlorophenylsilane	0025766-16-9				AD		B			
8062	Polyethyleneglycol diacetate	0027252-83-1				AD		B			
8063	Pentaerythritol tristearate	0028188-24-1				AD		B			
8064	Bis(octadecyloxy)dimethylsilane	0029043-70-7				AD		B			
8065	3,7-Dimethyl-6-octen-1-yl-3-ol	0029171-20-8			AP			B			
8066	Octahydronaphthalene	0031244-58-3				AD		B			
8067	Tetrakis(methyl ethyl ketoxime)silane	0034206-40-1			AP			B			
8068	Polyglycerol monostearate	0037349-34-1				AD	A				
8069	Acetic acid, 3-methoxypropyl ester	0041448-83-3				AD		B			
8070	N-[2-(Benzylamino)ethyl]-3-aminopropyltrimethoxysilane hydrochloride	0042965-91-3			AP			B			
8071	Platinum, 1,5-cyclooctadiene complexes	0046469-97-0			AP			B			
8072	Trichlorotris(dibutyl sulphide)rhodium	0055425-73-5			AP			B			
8073	Silicic acid trimethylsilyl ester	0056275-01-5				AD		B			
8074	3,3-Bis[(dimethylvinylsilyl)oxy]-1,5-divinyl-1,1,5,5 –tetra-methyl-trisiloxane	0060111-54-8		M				B			
8075	Polyethyleneglycol ether of tallow fatty alcohol	0061791-28-4				AD		B			
8077	Siloxanes and silicones, dimethyl, hydroxy terminated, ethoxylated	0063148-55-0				AD		B			

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8078	Siloxanes and silicones, diethyl	0063148-61-8				AD		B			
8079	Phosphorimidic trichloride, phosphorus complex	0063175-85-9			AP			B			
8080	Siloxanes and silicones, dimethyl, hydroxy terminated, ethoxylated, propoxylated	0064365-23-7				AD		B			
8081	Rubber, fluorinated	0064706-30-5				AD		B			
8082	Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl, ethers with poly(ethylene propylene)glycol monomethyl ether	0067762-85-0				AD		B			
8083	Siloxanes and silicones, dimethyl, reaction products with silica	0067762-90-7				AD		B			
8084	Siloxanes and silicones, dimethyl, methyl vinyl	0067762-94-1		M				B			
8085	Siloxanes and silicones, dimethyl, hydroxy terminated, ethers with polypropyleneglycol monobutyl ether	0067762-96-3				AD		B			
8086	Siloxanes and silicones, dimethyl, diphenyl, methyl vinyl	0067762-99-6		M				B			
8087	Siloxanes and silicones, dimethyl, [[[3-[(2-aminoethyl)-amino]propyl]- silylidyne]tris(oxy)]tris-, methoxy terminated	0067923-07-3		M				B			
8088	Siloxanes and silicones, dimethyl, [[[3-[(2-aminoethyl)-amino]-propyl]silylidyne] tris(oxy)]tris-	0067923-08-4				AD		B			
8089	Siloxanes and silicones, dimethyl, chlorine terminated	0067923-13-1		M				B			
8090	Siloxanes and silicones, dimethyl, methyl vinyl, hydroxy terminated	0067923-19-7		M				B			
8091	Siloxanes and silicones, dimethyl, [(dimethoxymethylsilyl)oxy]-terminated	0068037-58-1		M				B			
8092	Siloxanes and silicones, dimethyl, methyl hydrogen, reaction products with polyethyleneglycol monoacetate allyl ether and poly(ethylene propylene)glycol monoacetate allyl ether	0068037-62-7				AD		B			
8093	Siloxanes and silicones, dodecyl methyl, methyl 2-phenylpropyl	0068037-76-3		M		AD		B			
8094	Siloxanes and silicones, methyl phenyl, polymers with methyl phenyl silsesquioxanes	0068037-83-2		M				B			

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8095	Siloxanes and silicones, methyl methoxy, polymers with methyl silsesquioxanes	0068037-85-4		M				B			
8096	Siloxanes and silicones, methyl vinyl	0068037-87-6		M				B			
8097	Siloxanes and silicones, methyl 3,3,3-trifluoropropyl, [(dimethylvinylsilyl)oxy] terminated	0068037-88-7		M				B			
8098	Siloxanes and silicones, dimethyl, diphenyl	0068083-14-7		M				B			
8099	Siloxanes and silicones, dimethyl, methyl vinyl, vinyl group terminated	0068083-18-1		M				B			
8100	Siloxanes and silicones, methyl vinyl, hydroxy terminated	0068083-20-5		M				B			
8101	Tallow esters of glycerol, hydrogenated	0068308-54-3				AD		B			
8102	Platinum, chlorooctanol complexes	0068412-56-6			AP			B			
8103	Siloxanes and silicones, dimethyl, polymers with methyl silsesquioxanes, methoxy terminated	0068440-84-6		M				B			
8104	Siloxanes and silicones, methyl hydrogen, reaction products with 3-chloro-1-propene, 1-decene and 4,4'-methylenebis[2,6-bis-(1,1–dimethyl-ethyl)phenol	0068440-89-1				AD		B			
8105	Platinum, 1,3-divinyl-1,1,3,3-tetramethyldisiloxane complexes	0068478-92-2			AP			B			
8106	Siloxanes and silicones, dimethyl, methyl hydrogen, polymers with methyl silsesquioxanes	0068554-51-8				AD		B			
8107	Siloxanes and silicones, dimethyl, octadecyloxy terminated	0068554-53-0				AD		B			
8108	Siloxanes and silicones, methyl hydrogen, methyl octyl	0068554-69-8		M	AP	AD		B			
8109	Silsesquioxanes, methyl, hydroxy terminated	0068554-71-2		M				B			
8110	Siloxanes and silicones, methyl 3,3,3-trifluoropropyl, hydroxy terminated	0068607-77-2		M				B			
8111	Siloxanes and silicones, dimethyl, diphenyl, polymers with phenyl silsesquioxanes	0068648-59-9		M				B			
8112	α-Alkenes (C10-C16)	0068855-58-3				AD		B			
8113	1,1,1-Trimethyl-N-(trimethylsilyl)silanamine, reaction products with ammonia, octamethylcyclotetrasiloxane and silica	0068937-51-9				AD		B			

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8114	Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl, ethoxylated	0068937-54-2				AD		B			
8115	Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl, ethoxylated, propoxylated	0068937-55-3				AD		B			
8116	Siloxanes and silicones, dimethyl, diphenyl, hydroxy terminated	0068951-93-9		M				B			
8117	Siloxanes and silicones, dimethyl, diphenyl, methoxy terminated	0068951-94-0		M				B			
8118	Siloxanes and silicones, dimethyl, diphenyl, methyl vinyl, vinyloxy terminated	0068951-95-1		M				B			
8119	Siloxanes and silicones, dimethyl, diphenyl, vinyl group terminated	0068951-96-2		M				B			
8120	Siloxanes and silicones, dimethyl, methyl vinyl, mono(vinyl group) terminated	0068951-99-5		M				B			
8121	Siloxanes and silicones, dimethyl, mono(vinyl group) terminated	0068952-00-1		M				B			
8122	Siloxanes and silicones, dimethyl, methyl methoxy, methoxy phenyl, polymers with methyl phenyl silsesquioxanes	0068952-93-2		M				B			
8123	Siloxanes and silicones, dimethyl, methyl hydrogen, reaction products with polypropyleneglycol monoallyl ether	0068957-00-6				AD		B			
8124	Siloxanes and silicones, dimethyl, hydroxy terminated, dipotassium salt	0068957-02-8				AD		B			
8125	Tetraethoxysilane, reaction products with chlorodimethylsilane	0068988-57-8		M				B			
8126	Silica [dimethylvinylsilyl)oxyl] and [(trimethylsilyl)oxy] modified	0068988-89-6				AD		B			
8127	Siloxanes and silicones, dimethyl, methyl hydrogen, hydrogen terminated	0069013-23-6		M				B			
8128	Siloxanes and silicones, dimethyl, vinyl group terminated, polymers with dimethylcyclosiloxanes, methylphenylcyclosiloxanes and methylvinylcyclosiloxanes	0069430-28-0		M		AD		B			
8129	Siloxanes and silicones, dimethyl, hydroxy terminated, reaction products with trimethoxymethylsilane and N-[3-(trimethoxysilyl)propyl]ethylenediamine	0069430-37-1				AD		B			

1	2	3	4	5			6		7	8	9
8130	Siloxanes and silicones, dimethyl, reaction products with methyl hydrogen siloxanes and 1,1,3,3-tetramethyl-disiloxane	0069430-47-3		M				B			
8131	3-(Bicyclo[2,2,1]hept-2-en-5-yl)-2,4-pentanedione, platinum	0069547-11-1			AP			B			
8132	Silsesquioxanes, phenyl	0070131-69-0		M				B			
8133	Siloxanes and silicones, dimethyl, (C3-C33-alkyloxy) terminated	0070851-21-7				AD		B			
8134	Dicarbonyldichloroplatinum, reaction products with 2,4,6-trimethyl-2,4,6-trivinylcyclotrisiloxane	0073018 55-0			AP			B			
8135	Siloxanes and silicones, alkyl(C10-C50) methyl, dimethyl, methyl tetradecyl	0073891-93-7		M		AD		B			
8136	Siloxanes and silicones, methyl vinyl, dicarbonyldichloroplatinum complexes	0075300-83-3			AP			B			
8137	Siloxanes and silicones, methyl hydrogen, methyl vinyl, hydrogen terminated	0075300-84-4		M				B			
8138	Siloxanes and silicones, methyl phenyl, hydroxy terminated	0080801-30-5		M				B			
8139	Tetrabutylphosphonium dimethylsilanolate	0090052-46-3			AP			B			
8140	Alkyl(C8-C14)sulphuric acid, ammonium salt	0090583-10-1				AD		B			
8141	Fatty acids, palm kernel oil, 2-sulphoethyl esters, sodium salts	0093572-04-4				AD		B			
8142	Tetraethoxysilane, reaction products with bis(acetyloxy)-dibutylstannane	0093925-42-9			AP			B			
8143	Acetic acid, 3-ethoxypropyl ester	0094825-54-4				AD		B			
8144	Bis(2,4-dimethylbenzoyl) peroxide	0096436-27-0			AP			B			
8145	Dibutyltin dicocoate	0096633-68-0			AP			B			
8146	Carbonylchloroplatinum, complexes with 2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane	0097375-25-2				AD		B			
8147	Maleic acid, bis(2-methoxy-1-methylethyl) ester	0102054-10-4				AD		B			
8148	Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl	0102782-61-6		M				B			

1	2	3	4	5			6		7	8	9
8149	Siloxanes and silicones, dimethyl, 3-hydroxypropyl group terminated, ethoxylated	0102783-01-7				AD		B			
8150	Tetraethoxysilane, hydrolysis products with 1,3-divinyl-1,1,3,3-tetramethyldisiloxane and hexamethyldisiloxane	0104199-38-4				AD		B			
8151	Siloxanes and silicones, dimethyl, polymers with phenyl silsesquioxanes, hydroxy terminated	0109961-41-3		M				B			
8152	Siloxanes and silicones, dimethyl, diphenyl, polymers with methyl phenyl silsesquioxanes, hydroxy terminated	0110775-80-9				AD		B			
8153	Siloxanes and silicones, dimethyl, polymers with methyl phenyl silsesquioxanes, hydroxy-terminated	0113355-05-8		M				B			
8154	Silsesquioxanes, phenyl, ethoxy and hydroxy terminated	0114697-06-2		M				B			
8155	Siloxanes and silicones, 3-hydroxypropyl methyl, ethers with polyethyleneglycol monomethyl ether	0117272-76-1				AD		B			
8156	Siloxanes and silicones, methyl hydrogen, reaction products with polyethyleneglycol monoacetate allyl ether	0118577-98-3				AD		B			
8157	Siloxanes and silicones, dimethyl, polymers with methyl silsesquioxanes, hydroxy terminated, ethoxylated, propoxylated	0119299-05-7				AD		B			
8158	Siloxanes and silicones, 5-hexenyl methyl, hydroxy-terminated	0125613-45-8		M				B			
8159	Siloxanes and silicones, dimethyl, hydroxy terminated, ethers with poly(ethylene propylene) glycol monobutyl ether	0129893-29-4				AD		B			
8160	Siloxanes and silicones, dimethyl, [[[3-(cyclohexylamino)-propyl]-dimethoxysilyl]oxy] terminated	0129968-18-9		M				B			
8161	Siloxanes and silicones, dimethyl, 3-(2-hydroxyphenyl)-propyl methyl, methyl 2-(7-oxabicyclo[4,1,0]hept-3-yl)ethyl	0130885-21-1		M		AD		B			
8162	Siloxanes and silicones, dimethyl, ethoxy methyl, ethoxy phenyl, polymers with methyl silsesquioxanes and phenyl silsesquioxanes, ethoxy terminated	0133101-81-2		M				B			
8163	Siloxanes and silicones, dimethyl, ethoxy phenyl, polymers with phenyl silsesquioxanes, ethoxy terminated	0133101-82-3		M				B			

1	2	3	4	5			6		7	8	9
8164	Siloxanes and silicones, dimethyl, polymers with methyl silsesquioxanes, chlorine terminated	0133101-83-4		M				B			
8165	Silsesquioxanes, methyl, polymers with phenyl silsesquioxanes, ethoxy terminated	0133101-84-5		M				B			
8166	Silsesquioxanes, phenyl, ethoxy-terminated	0133101-85-6		M				B			
8167	Siloxanes and silicones, dimethyl, methyl 3,3,3-trifluoropropyl, methyl vinyl, vinyl group terminated	0133649-93-1		M				B			
8168	Siloxanes and silicones, dimethyl, 5-hexenyl group terminated	0144669-03-4		M				B			
8169	Siloxanes and silicones, dimethyl, 6-hydroxyhexyl group terminated	0146955-64-8		M				B			
8170	Siloxanes and silicones, dimethyl, 6-hydroxyhexyl methyl	0146955-65-9		M				B			
8171	Siloxanes and silicones, dimethyl, vinyl group terminated, polymers with 3-vinyl-7-oxabicyclo[4,1,0]heptane and methyl hydrogen siloxanes	0148684-77-9				AD		B			
8172	Siloxanes and silicones, dimethyl, methyl 2-(7-oxabicyclo-[4,1,0]-hept-3-yl)ethyl, [[dimethyl[2-7-oxabicyclo[4,1,0]-hept-3-yl)-ethyl] sily]oxy] terminated	0150678-61-8				AD		B			
8173	Siloxanes and silicones, dimethyl, hydroxy terminated, reaction products with methyl hydrogen siloxanes	0153890-19-8		M		AD		B			
8174	Siloxanes and silicones, dimethyl, hexadecyl methyl, methyl 11-methoxy-11-oxoundecyl	0155419-59-3				AD		B			
8175	Siloxanes and silicones, dimethyl, diphenyl, methyl vinyl, vinyl group terminated	0161133-76-2		M				B			
8176	Acids, aliphatic, linear, calcium salts					AD		B			
8177	Alkylarylsulphonic acid					AD		B			
8178	Dodecylsulphuric acid, salts					AD	A				
8179	Hydrocarbons, aromatic, C8-C10 (b,p, 135 - 210 °C)					AD		B			
8180	Platinum, organic dienes and trienes complexes				AP			B			
8181	Poly(ethylene propylene butylene)glycol monoalkyl (C4-Cl8) ethers					AD		B			

1	2	3	4	5			6		7	8	9
8182	Polyethyleneglycol esters of aliphatic monocarboxylic acids (C6-C22)					AD	A				
8183	Polyethyleneglycol ethers of fatty alcohols					AD		B			
8184	Polytrimethylsiloxy-polymethylhydrogen-siloxypolysilicic acid			M				B			
8185	Polyvinyl acetate, partially hydrolyzed					AD		B			
8186	Rhodium chloride/alkylsulphide complex				AP			B			
8187	Saccharose monopalmitate					AD		B			
8188	Silicic acid, alkyl esters					AD		B			
8189	Silicic acid, salts					AD	A				
8190	Silicic acid, silanated					AD	A				
8191	Siloxanes and silicones, dimethyl, diphenyl, methyl 5-hexenyl, 5-hexenyl terminated			M				B			
8192	Siloxanes and silicones, dimethyl, hydrogen terminated, reaction products with polypropyleneglycol monoallyl ether					AD		B			
8193	Siloxanes and silicones, dimethyl, methyl 5-hexenyl			M				B			
8194	Siloxanes and silicones, dimethyl, methyl 5-hexenyl, 5-hexenyl group terminated			M				B			
8195	Siloxanes and silicones, dimethyl, methyl 5-hexenyl, hydroxy terminated			M				B			
8196	Siloxanes and silicones, dimethyl, methyl-2-(7-oxabicyclo-[4,1,0]-hept-3-yl)ethyl, [2-methyl-3-hydroxy-4(1-oxa-2-phenylethanone)- cyclohexyl] ethyl, trimethylsiloxy terminated			M				B			
8197	Siloxanes and silicones, dimethyl, reaction products with polyethylsilane and silica			M		AD		B			
8199	Siloxanes and silicones, methyl hydrogen, methyl 5-hexenyl, hydrogen terminated			M				B			
8200	Siloxanes and silicones, methyl hydrogen, methyl alkyl			M	AP	AD		B			
8203	Trimethylsilicic acid, hydroxy and ethoxy terminated					AD		B			

2 Restrizioni, specifiche e requisiti particolari

2.1 Restrizioni di gruppo di determinate sostanze

2.1.1 Le sostanze riportate nella Parte B della colonna 6 possono essere utilizzate solo alle seguenti condizioni:

a. non devono essere classificate come «mutagene», «cancerogene» o «tossiche per la riproduzione» (sostanze CMR) di categoria 1A, 1B o 2 secondo l'allegato 2 numero 1 dell'ordinanza del 5 giugno 2015 sui prodotti chimici (OPChim)[1];

b. non è consentita alcuna migrazione della sostanza. La conformità è stabilita mediante metodi idonei di prova della migrazione, selezionati conformemente all'articolo 11 del regolamento (CE) n. 882/2004, che possono confermare l'assenza di migrazione al di sopra di un determinato limite di rilevamento. Se non sono stati fissati limiti di rilevabilità specifici per determinate sostanze o gruppi di sostanze, si applica un limite di rilevabilità di 0,01 mg/kg. Tale limite si applica a un gruppo di composti, se strutturalmente e tossicologicamente correlati (in particolare isomeri o composti con lo stesso gruppo funzionale) o a singole sostanze che non sono correlate e comprende gli eventuali trasferimenti (set-off).

2.1.2 Le sostanze prodotte intenzionalmente in nanoforma possono essere utilizzate solo se sono espressamente autorizzate e menzionate negli allegati 2 e 9. I coloranti e i pigmenti contenenti nanoparticelle possono essere utilizzati purché nessuna nanoparticella migri nella derrata alimentare.

2.1.3 I materiali e gli oggetti di silicone non devono contenere alcun polisilossane ciclico che leghi allo stesso atomo di silicio un gruppo fenile e un atomo di idrogeno oppure un gruppo metile.

2.2 Restrizioni di materiali e oggetti di silicone

2.2.1 I materiali e gli oggetti di silicone non devono rilasciare le seguenti sostanze in quantità eccedenti i limiti di migrazione specifica indicati di seguito:

Sostanze	LMS [mg/kg di prodotto o simulante alimentare]
Alluminio	1
Bario	1
Cobalto	0,05
Rame	5
Ferro	48
Litio	0,6
Manganese	0,6
Nichel	0,02
Zinco	5

2.2.2 Le ammine aromatiche primarie che non figurano nella tabella 1 non devono migrare o essere rilasciate da materiali e oggetti di materia plastica nelle derrate alimentari o nel simulante alimentare. La conformità è stabilita mediante metodi idonei di prova della migrazione, selezionati conformemente all'articolo 11 del regolamento (CE) n. 882/2004, che possono confermare l'assenza di migrazione al di sopra di un determinato limite di rilevamento. Se non sono stati fissati limiti di rilevabilità specifici per determinate sostanze o gruppi di sostanze, si applica un limite di rilevabilità di 0,01 mg/kg alla somma delle ammine aromatiche primarie rilasciate.

2.2.3 La somma di tutte le sostanze cedute alle derrate alimentari o ai simulanti alimentari da materiali e oggetti di silicone non deve superare i 10 mg/dm^2 della superficie del materiale o dell'oggetto finito, valore considerato limite di migrazione globale. Per i materiali e gli oggetti di silicone destinati a lattanti e bambini piccoli la migrazione globale non deve superare i 60 mg di costituenti totali rilasciati per kg di derrata alimentare o simulante alimentare.

[1] RS **813.11**

2.2.4 La verifica del rispetto dei limiti di migrazione è effettuata secondo le regole fissate per le materie plastiche (allegato 4). I risultati delle prove di migrazione ottenuti nelle derrate alimentari prevalgono sui risultati ottenuti nei simulanti alimentari.

2.2.5 I materiali e gli oggetti di silicone non devono cedere più dello 0,5 % di materie organiche libere (volatili) secondo il protocollo di prova seguente:

Circa 10 g di campione sono tagliati in pezzi della dimensione di circa 1×1 cm e lasciati per 48 ore a temperatura ambiente in un essiccatoio contenente cloruro di calcio. I pezzi vengono pesati con un margine di errore di ± 0,1 mg e riscaldati in un forno mantenuto a 200 °C per 4 ore. Dopo il raffreddamento nell'essiccatoio, il campione è pesato nuovamente. La quantità di materia volatile persa risulta dalla differenza di massa, espressa in percentuale.

È possibile utilizzare altri metodi per determinare la cessione di materie volatili, purché portino allo stesso risultato.