TAMURA Group

Green Procurement Standards Appendix

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TAMURA CORPORATION

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Attached document (Format)

"Green procurement" supplier questionnaire

* The revision contents display it with blue.

* As for this document, Japanese is original. When there is a doubt, Please confirm a Japanese version. The content is given to priority to a Japanese version, when there is contradiction between the contents of English version and Japanese version.

1. Objective

This "green procurement standard appendix" aims to provide the standard of environmental control substances of the procurement goods by order of RoHS Directive and REACH Regulation and to promote production which considers the environment.

2. Application

This green procurement standard appendix is intended for all parts, materials, packaging, and other articles (hereafter called the "procurement goods") used for Tamura product.

3. Definition of Terms

(1) Controlled Environmental Substance

Chemical substances contained in delivered products specified by Tamura Group which are judged to have marked impacts on global environment and human bodies.

(a) Containing banned substances

(Chemical substances that must not be used in procurement goods)

Any of the substances shown below falls into this range.

- Chemical substance contaminated in products that is banned by existing laws and regulations or a substance where an upper limit of concentration is specified.
- Chemical substances that are banned in product contamination by the Tamura Group prior to the effective period specified by a treaty, law, or regulation.
- Chemical substances for which the Tamura Group promotes the ban on usage in products.
- Containing banned substances are managed using the controls levels 1) to 3) and the Exclusion.
- 1) Level 1
 - The range of limitation that must not be used in procurement goods.
- 2) Level 2

The usage of these substances in products procured by a specified date is banned; if used, thecontent must be made clear.

3) Level 3

The substances being reviewed for transition to Level 2 in the future and having the usage status assessed for the substances and their application.

4) Exclusion

Contents which are excluded from Levels 1 to 3 in consideration for items exempt from laws.

(b) Substances requiring communication of information

Chemical substances for which it is necessary to assess the containment of substance and the containment amount. However, does not restrict intentional use. In the case of an overlap with Containing banned substances, priority is given to the Containing banned substances. Further information is given in "4.2 Information Transmission Substances."

(2) Homogeneous material

A material that cannot be mechanically disjointed into different materials.

(3) Contained

Addition, filling, mixture, or adhesion of a chemical substance regardless of whether it is intentionally or not. (If the product may be subjected to contamination from molds, tools, machines, equipment, etc. with which it comes into direct contact, the part which touches the product must be considered to fall under the scope of banned environmentally hazardous substances.)

(4) Impurities

It means chemical substances contained in natural materials, but could not be completely removed by industrial technology in the refining process for industrial material, or substances occurring in synthetic reaction, but could not be eliminated by industrial technology.

(5) Intentional addition

Deliberate use in the formulation of a product where its continued presence is desired to provide a specific characteristic, appearance or quality.

(6) Chemical substance

Substances which are single elements or composites and that exist naturally or are obtained from a production process. (7) Mixture

A mixture intent

A mixture intentionally comprising two or more chemical substances.

(8) Article

An item of specific shape, appearance or design created duringmanufacture which substantially determines functions in final userather than functions provided by its chemical composition.

Note: Examples of articles are metal plates, gears, integrated circuits, electric appliances, transport equipment, etc.

(9) Part

An article to be manufactured until it turns into an end product.

4. Environmental control substances

4.1.Containing banned substances

The scope includes chemical substances contained in procured items that are determined to have a significant environmental impact on the global environment or humans that meet any of the following conditions:

- Chemical substance contaminated in products that is banned by existing laws and regulations; or a substance where an upper limit of concentration is specified.
- Chemical substances that are banned in product contamination by the Tamura Group prior to the effective period specified by a treaty, law, or regulation.

- Chemical substances for which the Tamura Group promotes the ban on usage in products. We may ask you to submit a "non-use guarantee." If the format is specified, please submit the documents in the specified format.

Note : The detailed contents of banned subsutance group mention it in (Table 2)

(Table 1)	List of	containing	banned	subsutance	aroup
		oontaining	Samoa	ouboutarioo	group

N⁰	Substances / Substance group	р.
1	Asbestos	4
2	Specific azo compounds which form certain aromatic amines	4
3	Beryllium Oxide (BeO)	4
4	Cadmium and Cadmium compounds	4
5	Brominated flame retardants (BFR) ^{%1} (other than PBBs,PBDEs, or HBCDD)	5
6	Chlorinated flame retardants (CFR) ^{%1}	5
7	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (DechloranePlus)	5
8	Chromium VI compounds	5
9	Cobalt dichloride	5
10	Diarsenic Trioxide • Diarsenic Pentoxide ^{**1}	5
11	DibutyItin compounds (DBT)	5
12	Dioctyltin compounds (DOT)	6
13	Dimethyl fumarate (DMF)	6
14	Polycyclic aromatic hydrocarbons (PAH)	6
15	Fluorinated greenhouse gases (PFC, SF ₆ , HFC)	6
16	Formaldehyde	6
17	Hexabromocyclododecane (HBCDD) and all major diastereoisomers	7
18	Lead and Lead compounds	7
19	Mercury and Mercury compounds	8
20	Nickel and Nickel compounds	8
21	Ozone Depleting Substances	8
22	Perchlorates ^{**1}	8
23	Perfluorooctane sulfonates (PFOS) and its salts and related substances	8
24	Perfluorooctanoic acid (PFOA) and its branched isomers, its salts, and PFOA-related substances	8
25	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	9
26	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	9
27	Bis (2-ethylhexyl) phthalate (DEHP)	9
28	Benzyl butyl phthalate (BBP)	9
29	Dibutyl phthalate (DBP)	9
30	Diisobutyl phthalate (DIBP)	9
31	Di-isodecyl phthalate (DIDP)	10
32	Diisononyl phthalate (DINP)	10
33	Di-n-octyl phthalate (DNOP)	10
34	Polybrominated Biphenyls (PBBs)	10
35	Polybrominated Diphenylethers (PBDEs)	10
36	Polychlorinated Biphenyls (PCBs) and specific substitutes	10

Nº	Substances / Substance group	р.
37	Polychlorinated Terphenyls (PCTs)	10
38	Polychlorinated Naphthalenes	11
39	Polyvinyl chloride (PVC), PVC Copolymers and its blends	11
40	Radioactive substances	11
41	Shortchain Chlorinated Paraffins (C10–C13)(SCCP)	11
42	Medium-chain Chlorinated Paraffins (C14–C17, and chlorination rate of 45wt% or more)(MCCP) ³²	11
43	Specified organic tin compounds (trisubstituted stannanes (include TBT, TPT))	11
44	Chlorinated phosphate ester flame retardants (TCEP, TCPP, TDCPP)	11
45	Long-Chain Perfluoroalkyl Carboxylate and Perfluoroalkyl Sulfonate Chemical Substances (LCPFACs)	12
46	Phenol, isopropylated Phosphate (3:1) (PIP(3:1))	12
47	Pentachlorothiophenol(PCTP)	12
48	Perfluorohexane-1-sulphonic acid (PFHxS) and its salts and related substances	12
49	Long-chain Perfluorocarboxylic acids (PFCAs), its salts and related substances	12
50	Perfluorohexanoic acid (PFHxA) and its salts and related substances ²²	12
51	Decabromodiphenylethane (DBDPE) ^{※1}	12
52	4,4'-isopropylidenediphenol (Bisphenol A) and a substance group containing Tetrabromo-bisphenol A(TBBPA) ^{%1}	13
53	Di-n-hexyl Phthalate (DnHP) ^{**1}	13
54	Octamethylcyclotetrasiloxane (D4), Decamethylcyclopentasiloxane (D5),	13
57	Dodecamethylcyclohexasiloxane (D6) ^{**2}	15
55	Per- and polyfluoroalkyl substances (PFAS) *1	13
56	IEC 62474 listed substances (others) ^{%1}	13
57	Hexachlorobenzene(HCB)	14
58	Pentachlorophenol(PCP) and its salts and esters	14
50	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc : Class I	11
55	Specified Chemical Substances	14
60	Industrial Safety and Health Act (Articl 55):Harmful Substances, etc., Prohibited for Manufacturing, etc.	14
61	Poisonous and Deleterious Substances Control Act : Specified Poisonous Substances	14
62	Arsenic and arsenic compounds ^{**3}	15
63	Halogen compound and Halogen resins ³³	15
64	Mineral oil aromatic hydrocarbons (MOAH) ^{*1*3}	16
65	Saturated hydrocarbons(C16-35) (MOSH) ^{*1*3}	16

X1 : Only level 3 is applied. It is possible to deliver it until the prohibition date is specified.

 $\times 2$: Only level 2 is applied. It is possible to deliver it until the effective date.

3 : It applies only to the packaging medium. Refer to P.15 -16(Table 3)

(Table 2) Names of banned Substances, Scope and When Delivery is banned

When "Intentional addition" and a numerical value are shown in "threshold levels", both of them shall be satisfied.

No.1	Asbestos		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	- All uses	 Intentional addition 	Banned already

No.2	Specific azo compounds which form certain aromatic amines				
Supplement	When decomposed based on testing methods quoted in the REACH regulation (EC) No.1907/2006 Annex XVII, amines not to be generated by decomposition and the azo compounds that generate those amines				
Targets threshold level Effective date of ban on the delived					
Level 1	Banned already				

No.3	Beryllium Oxide (BeO)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	- All uses	 More than 1000 ppm in the parts 	Banned already

No.4	Ca	dmium and Cadmium compo	ounds			
Targets thres			thresho	old level	Effective date of the ban on the delivery	
	- All uses			- Intentional ad	dition	
Level 1				- More than 10	0 ppm in	Banned already
				a homogeneo	ous material	
	- The	e items mentioned of "(2011/6	5/EU ANNEX I	Π)"		
	<u>http</u>	s://ec.europa.eu/environment/wa	<u>ste/rohs_eee/ac</u>	aptation en.htm		
	RoH	IS 2 exemptions - Validity and rol	lling plan			
	Tan	nura Group prohibites six months	before the date	s of applicability.		
	(Ref	erence)				
	No. Exemptio		tion※1		Category%2	Scope and dates of applicability 3
	8(b)	Cadmium and its compounds in electrical	contacts		8, 9(others)	Requested for renewal
					8(in vitro)	Requested for renewal
Exclusion	8(b)-l	Cadmium and its compounds in electrical	contacts used in:		1~7, 10	Requested for renewal
	. ,	— circuit breakers,				
	— thermal sensing controls,					
		 — thermal motor protectors (excluding hermetic thermal motor protectors), AC switches rated at: 6A and more at 250\/AC and more or 12A and more at 				
		125VAC and more,				
		— DC switches rated at 20 A and more at	18 V DC and more,			
		— switches for use at voltage supply frequency \geq 200 Hz				
	13(b)	Cadmium and lead in filter glasses and gla	asses used for reflect	ance standards	8, 9(others)	Requested for renewal
					8(IN VITRO)	Requested for renewal
	13(b)-ll	Cadmium in striking ontical filter glass type	20			Requested for renewal
	13(b)-III Cadmium in striking optical little glass types			1 7,10	requested for renewal	
1 : If there is a difference from the RoHS directive, the Cat. 8, 9 others : for categories 8 and 9 other than in vitro diagnostic medical devic			tic medical devices and industrial			
directive will take precedence.						
※2 According to the definition of RoHS directive		definition of RoHS directive	Cat. 8 in vitro :	for category 8 in vitro diagnostic medical devices		
3: Six months before the dates of applicability Cat. 9 industrial : for category 9 industrial monitoring and control instruments		nstruments				

No.5	5 Brominated flame retardants (BFR) (other than PBBs,PBDEs, or HBCDD)					
	Targets	threshold level	Effective date of the ban on the delivery			
Level 3	- All uses	 More than1000 ppm as bromine in plastic materials 	Possible until specified date			

No.6	Chlorinated flame retardants (CFR)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 3	- All uses	 More than1000 ppm as chlorine in plastic materials 	Possible until specified date

No.7	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene (DechloranePlus)					
Targets threshold level Effective date of ban on the delived						
Level 1	- All uses	 Intentional addition More than 1 ppm in the article 	Banned already			

No.8	Chromium VI compounds		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	 Natural leather parts and materials All uses other than the above 	 3 ppm or more of the dry weight of the natural leather materials Intentional addition More than 1000 ppm in a homogeneous material 	Banned already
Exclusion	 The items mentioned of "(2011/65/EU ANNEX I <u>https://ec.europa.eu/environment/waste/rohs_eee/ad</u> RoHS 2 exemptions - Validity and rolling plan 	II)" aptation_en.htm	

No.9	Cobalt dichloride				
	Effective date of the ban on the delivery				
Level 1	 Moisture indicator used for a desiccant agent (e.g. silicagel) 	 Intentional addition 	Banned already		
	 Humidity indicator card which is impregnated withcobalt dichloride 	 More than 1000 ppm in the article 	Barned aready		
Level 3	 All application other than the above 	 More than 1000 ppm in the article 	Possible until specified date		

No.10	Diarsenic Trioxide Diarsenic Pentoxide		
	Targets	threshold level	Effective date of the ban on the delivery
Level 3	- All uses	 More than 1000 ppm in the article 	Possible until specified date

No.11	Dibutyltin compounds (DBT)		
	Targets	threshold level	Effective date of the
	A 11	* .	barron the delivery
	- All uses	 More than 1000 ppm[↑] in 	
Level 1		a homogeneous material	Banned already
		* By the weight of a tin	

No.12	Dioctyltin compounds (DOT)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	 Cloth, fiber, leather goods, and those materials Child care article Two-component roomtemperature vulcanisation moulding kits (RTV-2 moulding kits) 	 More than 1000 ppm[*] in a homogeneous material * By the weight of a tin 	Banned already

No.13	Dimethyl fumarate (DMF)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	- All uses	 0.1 ppm or more in the parts 	Banned already

No.14	Polycyclic aromatic hydrocarbons (PAH)					
	Targets	threshold level	Effective date of the ban on the delivery			
Level 1	 Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact 	 0.5 ppm or more in a homogeneous material 	Banned already			
Levert	 Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those above 	 1 ppm or more in a homogeneous material 	Danned aneady			
Level 3	- The following rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact (CAS Registry Number : 91-20-3, 120-12-7,85-01-8, 206-44-0, 129-00-0, 191-24-2, 193-39-5)	 0.5 ppm or more in the articl 	Possible until specified date			

No.15	.15 Fluorinated greenhouse gases (PFC, SF ₆ , HFC)				
Targets threshold level Effe					
Level 1	- All uses	 Intentional addition 	Banned already		

No.16	Formaldeh	yde				
Targets			threshold level	Effective date of the ban on the delivery		
	- The wooder	products made from fiberboard,	- Obtain the value by any of			
	particleboar	d, or plywood, which are employed	the following test methods			
Level 1	in products	(e.g. speakers and racks)	(1) to (3).	Banned already		
	- Cloth, fiber,	leather product, and the material	- 75 ppm or more in			
			a homogeneous material			
Reference v	Reference value (emission content): Obtain the value by any one of the following methods.					
(1) With a cha	amber method	Concentration in the air : Equal to or I	ess than 0.1 ppm(or 0.124mg/m)in an air-tight test		
chamber whose volume is 12m [*] ,1m [*] ,0.0225m [*] .						
(2) With a pe	rforater method	- Equal to or less than 6.5 mg in 100 g	of a particleboard without a surfa	ice treatment		
		(the average value during 6 months)				
		- Equal to or less than 7.0 mg in 100 g of a fiberboard without a surface treatment				
		(the average value duruing 6 months)				
		- Equal to or less than 8.0 mg in 100 g of a particleboard/fiberboard without a surface				
		treatment (the value derived from the	one-time measurement based or	n ISO 12460)		
(3) Desiccato	r method	- Average content: 0.5 mg/l or less, Maximum content: 0.7 mg/l or less				
		(Use N=2 to check the average and m	aximum values)			
Measurement methods :						
(1) Chamber method		d EN 717-1:2004				
(2) F	Perforator metho	od ISO 12460:2015				
(3) Desiccator method JIS A 5905 (Fiberboards), JIS A 5908 (Particleboards)						

No.17	Hexabromocyclododecane (HBCDD) and all major diastereoisomers				
Targets threshold level Effective date of the ban on the deliver					
Level 1	- All uses	 Intentional addition More than 75 ppm in the articl 	Banned already		

No.18	Lea	ad and Lead compounds			
		Targets	threshc	old level	Effective date of the ban on the delivery
	- Par	ts and materials for consumer products	- 100 ppm or /	more	
	des	igned or intended primarily for children 12	in the part		
	yea	irs of age or younger			
	- Pai	nt and similar surface coatings of toys and	- More than 90	0 ppm in	
Level 1	oth	er articles intended for use by children	surfa <u>ce coat</u>	ing material	Banned already
	- Cal	oles/cords (including plug and connector)	- More than 3/	00 ppm in	
	with	thermoset or thermoplastic coatings	surface coat	ing material	
	- All	uses except the above	- More than 1	000 ppm in	
			a homogene	ous material	
	- The	items mentioned of "(2011/65/EU ANNEX III)"			
	http	s://ec.europa.eu/environment/waste/rohs_eee/ada	uptation en.htm		
	Roł	IS 2 exemptions - Validity and rolling plan			
	Tan	nura Group prohibites six months before the dates	of applicability.		
	(Ref	erence)			
	No.	Exemption %1		Category %2	Scope and dates of applicability 3
	5(b)	Lead in glass of fluorescent tubes not exceeding 0.2% by weight	i	1~7, 10	Requested for renewal
	6(a)	Lead as an alloying element in steel for machining purposes and	d in galvanized	8, 9(others)	Requested for renewal
	- (-)	steel containing up to 0,35% lead by weight		8(in vitro) 9(industrial) 11	Requested for renewal
	6(a)-l	6(a)-1		1~7, 10	Requested for renewal
	`` <i>`</i>	weight and in batch hot dip galvanised steel components containing up to 0,35 % lead by			·
	6(b)	 6(b) Lead as an alloying element in aluminium containing up to 0.4% lead by weight 6(b)-1 Lead as an alloying element in aluminium containing up to 0.4% lead by weight. 		8, 9(others)	Requested for renewal
				8(in vitro)	Requested for renewal
	6(b)-l			9(industriai), 11 $1 \sim 7.10$	Requested for renewal
	0(~)	provided it stems from lead-bearing aluminium scrap recycling		,	
	6(b)-II	II Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight		1~7, 10	Requested for renewal
Exclusion	6(c)	Copper alloy containing up to 4% lead by weight		1~7, 10	Requested for renewal
				8, 9(otners) 8(in vitro)	Requested for renewal
				9(industrial), 11	Requested for renewal
	7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85		1~7, 10	Requested for renewal
	7(c)	% by weight or more lead)	ar paramia othor	8, 9(others)	Requested for renewal
	7(0)-1	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic		9(industrial), 11	Requested for renewal
	7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 12	5 V AC or 250 V		
	13(a)	DC or higher		1~7.10	Requested for renewal
	,			8, 9(others)	Requested for renewal
				8(in vitro)	Requested for renewal
	13(b)	Codmium and load in filter alassas and alassas used for reflecta	rea atondarda	9(industrial), 11	Requested for renewal
	13(0)	Cadmium and read in filler glasses and glasses used for remedian	nce standards	8(in vitro)	Requested for renewal
				9(industrial), 11	Requested for renewal
	13(b)-I	Lead in ion coloured optical filter glass types		1~7, 10	Requested for renewal
	34	Lead in cermet-based trimmer potentiometer elements		1~7, 10	Requested for renewal
				8, 9(others)	Requested for renewal
				8(in vitro)	Requested for renewal
×1 . If there is	a differ	ence from the RoHS directive the Cat & 9 others f	for categories 8 and 9 c	9(industrial), 11	Requested for renewal
directive	will take	precedence.	nonitoring and control in	nstruments	
%2 : Accordinç	to the	definition of RoHS directive Cat. 8 in vitro : fr	or category 8 in vitro dia	agnostic medical devices	s
3 : Six mont	ns befo	re the dates of applicability Cat. 9 industrial : fr	or category 9 industrial	monitoring and control in	nstruments

3 : Six months before the dates of applicability

No.19	Mercury and Mercury compounds		
	Targets	threshold level	Effective date of the ban on the delivery
	- All uses	 Intentional addition 	
Level 1		- More than 1000 ppm in	Banned already
		a homogeneous material	
	- The items mentioned of "2011/65/EU ANNEX III		
Exclusion	https://ec.europa.eu/environment/waste/rohs_eee/adaptation_en.htm		
	RoHS 2 exemptions - Validity and rolling plan		

No.20	Nickel and Nickel compounds		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	 Usage in which contact with skin is expected to be prolonged (belts, straps, ear phones, head phones and shoulder pads for bags, etc) 	- 0.50 μg/cm ² /week	Banned already

No.21	Ozone Depleting Substances		
Supplement	Regulated substances also include isomers		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	- All uses	 Intentional addition Use in the process of manufacture 	Banned already

No.22	Perchlorates		
	Targets	threshold level	Effective date of the ban on the delivery
	- All uses	- 0.006 ppm or more	Possible until
Level 3		in the parts	specified date

No.23	Perfluorooctane sulfonates (PFOS) and its salts and related substances			
	Targets	threshold level	Effective date of the ban on the delivery	
	 Textiles or other coated materials 	 Intentional addition 1µg/m² or more in the coated material 		
Level 1	- All uses other than the above	 Intentional addition 25 ppb or more in substance, mixture and article More than 1 ppm as the sum of PFOS related substances in the article (as the sum of PFOS) 	Banned already	

No.24	Perfluorooctanoic acid (PFOA) and its branched isomers, its salts, and PFOA-related substances		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	 Chemical substance, Mixture and Article using perfluorooctanoic acid (PFOA) and its branched isomers and its salts 	 Intentional addition 25 ppb or more in substance, mixture and article 	
	 Chemical substance, Mixture and Article using perfluorooctanoic acid (PFOA) related substances 	 Intentional addition 1 ppm or more in substance, mixture and article (as the sum of PFOA) 	Banned already

No.25	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	- All uses	- Intentional addition	Banned already

No.26	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	- All uses	 Intentional addition More than 1 ppm in the article 	Banned already

No.27	Bis (2-ethylhexyl) phthalate (DEHP)		
	Targets	threshold level	Effective date of the ban on the delivery
	 Parts and materials used in electrical and electronic equipment 	 More than 1000 ppm in a homogeneous material 	
Level 1	- All uses other than the above	 1000 ppm or more in plasticized material (As the sum of DEHP, DBP, BBP, DIBP) 	Banned already
Exclusion	 The items mentioned of "(2011/65/EU ANNEX I <u>https://ec.europa.eu/environment/waste/rohs_eee/ad</u> RoHS 2 exemptions - Validity and rolling plan 	II)" aptation_en.htm	

No.28	Benzyl butyl phthalate (BBP)		
	Targets	threshold level	Effective date of the ban on the delivery
	 Parts and materials used in electrical and electronic equipment 	 More than 1000 ppm in a homogeneous material 	
Level 1	 All uses other than the above 	 1000 ppm or more in plasticized material (As the sum of DEHP, DBP, BBP, DIBP) 	Banned already

No.29	Dibutyl phthalate (DBP)		
	Targets	threshold level	Effective date of the ban on the delivery
	 Parts and materials used in electrical and electronic equipment 	 More than 1000 ppm in a homogeneous material 	
Level 1	 All uses other than the above 	 1000 ppm or more in plasticized material (As the sum of DEHP, DBP, BBP, DIBP) 	Banned already

No.30	Diisobutyl phthalate (DIBP)		
	Targets	threshold level	Effective date of the ban on the delivery
	 Parts and materials used in electrical and electronic equipment 	 More than 1000 ppm in a homogeneous material 	
Level 1	 All uses other than the above 	 1000 ppm or more in plasticized material (As the sum of DEHP, DBP, BBP, DIBP) 	Banned already

No.31	Di-isodecyl phthalate (DIDP)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	 Parts and materials for children's toy or child care article that can be placed in a child's mouth 	 More than 1000 ppm in plasticized material (As the sum of DIDP, DINP, DNOP) 	Banned already
Level 3	- All uses	- Intentional addition	Possible until specified date

No.32	Diisononyl phthalate (DINP)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	 Parts and materials for children's toy or child care article that can be placed in a child's mouth 	 More than 1000 ppm in plasticized material (As the sum of DIDP, DINP, DNOP) 	Banned already
Level 3	- All uses	 Intentional addition 	Possible until specified date

No.33	Di-n-octyl phthalate (DNOP)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	 Parts and materials for children's toy or child care article that can be placed in a child's mouth 	 More than 1000 ppm in plasticized material (As the sum of DIDP, DINP, DNOP) 	Banned already
Level 3	- All uses	- Intentional addition	Possible until specified date

No.34	Polybrominated Biphenyls (PBBs)		
	Targets	threshold level	Effective date of the ban on the delivery
	- All uses	 Intentional addition 	
Level 1		 More than 1000 ppm in 	Banned already
		a homogeneous material	

No.35	Polybrominated Diphenylethers (PBDEs)		
	Targets	threshold level	Effective date of the ban on the delivery
	- All uses	 Intentional addition 	
Level 1		 More than 500 ppm as the sum of PBDEs in the article 	Banned already
	- Parts and Materials subject to EU RoHS	- More than 1000 ppm in	
	Directive	a homogeneous material	

No.36	10.36 Polychlorinated Biphenyls (PCBs) and specific substitutes			
	Targetsthreshold levelEffective date of the ban on the delivery			
	- All uses	- Intentional addition		
Level 1		- More than 50 ppm in	Banned already	
		a homogeneous material		

No.37	Polychlorinated Terphenyls (PCTs)		
	Targets	threshold level	Effective date of the ban on the delivery
	- All uses	- Intentional addition	
Level 1		- More than 50 ppm in	Banned already
		a homogeneous material	

No.38	Polychlorinated Naphthalenes		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	- All uses	- Intentional addition	Banned already

No.39	No.39 Polyvinyl chloride (PVC), PVC Copolymers and its blends			
	Targets	threshold level	Effective date of the ban on the delivery	
	 Substrates for contactless IC cards Coating agents and fabrics for the carrying 	 Intentional addition 		
Level 1	bags, carrying cases, and carrying pouches, which are designed for use with personal computers, digital cameras, camcorders and portable audio products (excluding those for professional use)			
	- Cable ties used for accessories and connecting cords		Banned already	
	 Heat shrink tubes (note that such used for batteries are Level 3) Flexible flat cables(FFC) 			
	 Suction cups for mounting in-vehicle products Insulating plate, veneer, label, sheet, laminat 			
Level 3	- All uses except level1 items	- Intentional addition	Possible until specified date	
Exclusion	Binder for resins used for paints, inks, coating a	gents, adhesives etc.		

No.40	Radioactive substances		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	- All uses	- Intentional addition	Banned already

No.41	Shortchain Chlorinated Paraffins (C10–C13)	SCCP)	
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	- All uses	 Intentional addition More than 1000 ppm in the article 	Banned already

No.42	Medium-chain Chlorinated Paraffins (C14–C17, and chlorination rate of 45wt% or more)(MCCP)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 2	- All uses	 Intentional addition More than 1000 ppm in the article 	April 1, 2026~

No.43	Specified organic tin compounds (trisubstituted stannanes (include TBT, TPT))			
Targetsthreshold levelEffective date of the ban on the delivery				
Level 1	- All uses	 Intentional addition More than 1000ppm[*] in a homogeneous material * By the weight of a tin 	Banned already	

No.44	Chlorinated phosphate ester flame retardants	s(TCEP,TCPP,TDCPP)	
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	 Flame retardants used in plastics, resins, fabrics, and textiles 	 More than 1000 ppm in the articles 	Banned already

No.45	Long-Chain Perfluoroalkyl Carboxylate and Perfluoroalkyl Sulfonate Chemical Substances (LCPFACs)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	 the surface coatings (and materials used for surface coatings) of parts/products 	 Intentional addition 	Banned already

No.46	Phenol, isopropylated Phosphate (3:1) (PIP(3:1))		
Targets threshold level			Effective date of the ban on the delivery
Level 1	- All uses except level3 items	 More than 0.1 wt% in the articles 	Banned already
Level 3	 Lubricants, grease, manufacturing equipment, components for the semiconductor industry, and automotive components, except for exclusions 	 More than 0.1 wt% in the articles 	Possible until specified date
Exclusion	 Lubricants and grease for aerospace aircraft and turbine use Circuit boards and wiring harnesses (including terminals and fuse covers, cable sleeves, casings, connectors, and tape) 		

No.47	Pentachlorothiophenol(PCTP)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	- All uses	 More than 1wt% in the articles 	Banned already

No.48	Perfluorohexane-1-sulphonic acid (PFHxS), its salts and related substances			
	Targets	threshold level	Effective date of the ban on the delivery	
Level 1	- All uses	 Intentional addition More than 25 ppb as the sum of PFHxS and its salts in the substance, mixture and article More than 1 ppm as the sum of PFHxS related substances in the substance, mixture 	Banned already	
		and article		

No.49	Long-chain Perfluorocarboxylic acids (PFCAs), its salts and related substances		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1 [*]	 Carbon chain lengths within the range from C9 to C14 	 More than 25 ppb as the sum of PFCAs and its salts in the article More than 260 ppb as the sum of PFCAs related substances in the article 	Banned already
Level 2	 Carbon chain lengths within the range from C9 to C21 	- Intentional addition	April 1, 2026~

* Substances restricted under REACH (Annex XVII)

No.50	Perfluorohexanoic acid (PFHxA) and its salts and related substances				
	Targets threshold level Effective date of the ban on the delivery				
Level 2	- Textile products, leather products, fur products, and footwear for the general public	 More than 25 ppb as the sum of PFHxA and its salts in a homogeneous material More than 1 ppm as the sum of PFHxA related substances in a homogeneous material 	April 10, 2026~		

No.51	Decabromodiphenylethane (DBDPE)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 3	- All uses	 Intentional addition 	Possible until specified date

No.52	4,4'-isopropylidenediphenol (Bisphenol A) and a substance group containing Tetrabromo-bisphenol A (TBBPA)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 3	- All uses	 Intentional addition More than 10 ppm in the article 	Possible until specified date

No.53	Di-n-hexyl Phthalate (DnHP)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 3	- All uses	 Intentional addition More than 1000 ppm in the article 	Possible until specified date

No.54	Octamethylcyclotetrasiloxane (D4), Decamethylcyclopentasiloxane (D5), Dodecamethylcyclohexasiloxane (D6)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 2	 Glues, sealants, adhesives, and moldings 	 More than 1wt% as residue from silicone polymers 	December 6, 2025
	- Protective coatings	 More than 0.3wt% as residue from silicone polymers 	
Exclusion	- As a component of silicone polymers	•	

No.55	Per- and polyfluoroalkyl substances (PFAS)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 3	- Fluorinated substances containing at least one fully fluorinated (no H/Cl/Br/I atoms bonded) methyl (CF3-) or methylene (-CF2-) carbon atom	 Intentional addition 	Possible until specified date

No.56	IEC 62474 listed substances (others)			
Supplement	From among IEC 62474 listed substances, all chemical substances excluding chemical substances which are restricted in other items.			
Targets threshold level Effective date of the ban on the delivery				
Level 3	- All uses	 More than 1000 ppm in the articles 	Possible until specified date	

No.57	Hexachlorobenzene(HCB)		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	- All uses	 More than 10 ppm in the article * 	Banned already

* E U. (EU) No.2019/1021(POPs Regulation)

No.58	No.58 Pentachlorophenol(PCP) and its salts and esters		
Targets		threshold level	Effective date of the ban on the delivery
Level 1	- All uses	 More than 5 ppm in the article * 	Banned already

* E U. (EU) No.2019/1021(POPs Regulation)

No.59	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc : Class I Specified Chemical Substances		
Targets threshold level Effective date ban on the or		Effective date of the ban on the delivery	
Level 1	- All uses	 Intentional addition * 	Banned already

*According to principles of "Best Available Technology/ Techniques (BAT)" based on the Act on the Examination of Chemical Substances and Regulation of Manufacturing, etc. If approved by the Ministry of Health, Labor and Welfare, the Ministry of Economy, Trade and Industry, and the Ministry of the Environment in Japan, it will not be treated as a Class 1 Specified Chemical Substances.

No.60	No.60 Industrial Safety and Health Act (Articl 55) : Harmful Substances, etc., Prohibited for Manufacturing, etc.		
Targets threshold level Effective date ban on the		Effective date of the ban on the delivery	
Level 1 - All uses		 Intentional addition 	Banned already

No.61	Poisonous and Deleterious Substances Control Act : Specified Poisonous Substances		
Targets		threshold level	Effective date of the ban on the delivery
Level 1	- All uses	 Intentional addition 	Banned already

4.1.1. Additional requirements concerning "Packaging" materials

[Definition of "Packaging"]

Packaging is used for "supplying", "protecting", "treating", "delivering" and "giving" from the producer to the user or the consumer, and packaging material means that it is made from various type and material.

Packaging indicates the one is made from various kinds and various materials.

These added items also apply to parts and materials purchased as product packaging materials.

Note: A substance is exempted from the application of each environmental control substance standard only when it is clear that it will be discarded or processed in another way in a delivery location of Tamura Corporation*, there is no danger that the substance is transmitted to a part or a material or mixed with it, and there is an agreement between the management division of the delivery location and the client.

* Including returnable boxes under control of a carrier or a supplier which will be collected and reused

(Table 3) Additional requirements concerning packaging materials

X When "Intentional addition" and a numerical value are shown in "threshold levels", both of them shallbe satisfied.

/	Heavy metals (The total of mercury, cadmium, hexavalent chrome and lead)		
Targets		threshold level	Effective date of the ban on the delivery
	- The packaging which was listed in (Table 4)	 Intentional addition 	
		- 100 ppm or more in	
Level 1		a homogeneous material	Banned alredy
		(About the total of the	
		heavy metal)	
Exclusion	- Returnable box belongs to a parts supplier.		-

No.62 Arsenic and arsenic compounds			
Supplement	Supplement Reference laws and regulations · · · REACH Regulation ANNEX X VIClause19		
Targets threshold level		Effective date of the ban on the delivery	
Level 1 - The packaging that it was made of wood, and was listed in (Table 4) (A mainly wooden palette, wooden box)		 Intentional addition (insect killing, sterilization, etc) 	Banned alredy

No.63	Halogen compounds and halogen resins		
Supplement	Reference laws and regulations		
Supplement	···Blue angel, Eco Mark, Basel Convention, V	VEEE Directive Annex	
Targets threshold level Effective data ban on the			Effective date of the ban on the delivery
Level 1 - The packing that was listed in (Table 4) including Brominated flame retardant, chlorinated flame retardant, Poly vinyl chloride(PVC), fluorine contained resin.		Banned alredy	
Exclusion	 Parts and materials not primarily for performing packaging functions are used as packaging materials. The phrase "not primarily for performing packaging functions" refers to applications other than those for product protection or wrapping (case, cushioning materials, etc). Example: hologram label, halogen compounds and fluorine additives used in printing inks as coloring agents, etc. However, these exclusion conditions do not apply when the contained halogen compound is classified as a prohibited substance as defined in Level 1 		

No.64	Mineral oil aromatic hydrocarbons (MOAH)		
Supplement	Reference regulation: French circular economy law "Anti-Waste and Circular Economy Law (AGEC law)" Supplement (L2020-105), Decree: MOAH/MOSH regulation (D.543-213), Ministerial Order: Official gazette (JORF n° 0102 du 3 mai 2022)		
Targetsthreshold levelEffective date of ban on the deliv			
	 Packaging materials, printed matter (Substances containing 1 to 7 aromatic rings) 	- 1000 ppm in ink	Possible until
Level 3	 Packaging materials, printed matter (Substances containing 3 to 7 aromatic rings) 	- 1 ppm in ink	specified date

No.65	Saturated hydrocarbons(C16-35) (MOSH)		
Supplement	Reference regulation: French circular economy law "Anti-Waste and Circular Economy Law (AGEC law) Supplement (L2020-105), Decree: MOAH/MOSH regulation (D.543-213), Ministerial Order: Official gazette (JORF n° 0102 du 3 mai 2022)		
Targets threshold level Effective ban on t		Effective date of the ban on the delivery	
Level 3	 Packaging materials, printed matter 	- 1000 ppm in ink	Possible until specified date

(Table 4) The identification example of "Packaging"

For the one used in the product of consumer and business				
(The one used in the transportation of customer's product)				
PACKA	PACKAGING			
1	Carton(Box)	Including master carton and sub-master carton made from any materials.		
2	Buffer material			
3	protection bag	Such as made from foamed plastic or nonwoven fabric.		
5	(sheet)			
4	Plastic bag			
5	Envelope	Envelope for written guarantee etc		
6	Blister pack			
7	Film	Including the protection film that pasted to the surface of the liquid crystal display.		
8	Clamshell			
9	Partition			
10	Print ink	Used for packaging		
11	Adhesive tape	Such as used for closing carton or poly bag, or fixing or protection		
		for removable component.		
12	Staple			
13	Label	The one sticked to packing parts like bar code label in customer's Control Division.		
14	Joint	Carton joint, etc		
15	Wire band	PP band, etc		
16	Hanging tab			
17	Handle	Handle and constituent material		
18	Frame	Wood frame, etc		
19	Shrink film			
20	Bottle			
21	Sleeve			
22	Dressing case	The one that corresponds to dressing case of fountain pen and cosmetics		
23	Skid			
24	Spindle case			
NOT P	ACKAGING (List includ	ding the Packaging to traet as products)		
1		Cases or bags which is used for a CD and other recording mediums of the product		
	CD case/wrapping	consider it partly.		
2	Index card/Label	The index card labels which are attached to a CD and the other recordingmediums		
2		of the product consider it partly.		
3	Carrying case/ Porch	The things which are attached to the headphones of the product consider it partly.		
4	Label	Sticked on except packaging item		
5	Label	Sticked by third parties such as cargo label and /or invoice.		

Added to above, and used for devices, semiconductors and other components		
PACKAGING		
1	Magazine stick	Such as used for IC
2	Stopper	
3	Tray	
4	Reel	

Added to above, and used for physical distribution		
PACKA	AGING	
1	Pallet	Made from wood, plastic, paper, etc. which is used in one-way transportation, including slip sheet.
2	Wood box	
3	Stretch film	For protecting of collapse of cargo piles
4	Wood container	
5	Re-packing	Such as carton, cushion, tape, etc. for re-packing of sending out parts
6	Band/String	PP band
NOT PACKAGING		
1	Ship and air container	Container for ship transportation and air cargo container

4.1.2. Additional requirements concerning battery (Applicable to all batteries in commercial distribution)

	(Table 5)	Additional re	quirements	concerning	battery
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Name	Cadmium and Cadmium compounds		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	 Zinc carbon batteries* Alkaline manganese batteries* Nickel-metal hydride secondary battery* * except button cells 	 10 ppm or more of the cadmium in the battery 	Banned already
	- Batteries other than the above	 20 ppm or more of the cadmium in the battery 	

Name	Lead and Lead compounds		
	Targets	threshold level	Effective date of the ban on the delivery
	- Alkaline manganese batteries	- 40 ppm or more of the	
		lead in the battery	
Level 1	- Batteries other than the above	- 100 ppm or more of the	Banned already
		lead in the battery	
	- Zinc-Silver oxide batteries, Zinc-air batteries (b	outton cells)	

Name	Mercury and Mercury compounds		
	Targets	threshold level	Effective date of the ban on the delivery
Level 1	- All batteries	 Intentional addition 1 ppm or more of the Mercury in the battery 5 ppm or more in a homogeneous material 	Banned already

Definitions in this clause

- "Battery" means any source of electrical energy generated by direct conversion of chemical energy and consisting of one or more primary battery cells (non-rechargeable) or consisting of one or more secondary battery cells (rechargeable).
- "Button Cell" means any small round portable battery whose diameter is greater than its height and which is used for special purposes such as hearing aids, watches, small portable equipment and back-up power.

A list of Containing banned substances (Exemplification)

(Table 6) List of Containing banned substances (exemplification)

These are some typical banned substances. For other substances, please refer to the chemSHERPA substance list.

Refer to P.5

No.7	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene (DechloranePlus)	CAS RN
1,4: 1,4:	7,10-Dimethanodibenzo[a,e]cyclooctene, 1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro- 4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-	13560-89-9
1,4: 6a,7	7,10-Dimethanodibenzo[a,e]cyclooctene, 1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6, ',10,10a,11,12,12a-dodecahydro-, (1R,4S,4aS,6aS,7S,10R,10aR,12aR)-rel-	135821-74-8
1,4: 1,4:	7,10-Dimethanodibenzo[a,e]cyclooctene, 1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro- 4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-, (1R,4S,4aS,6aR,7R,10S,10aS,12aR)-rel-	135821-03-3

No.15 Fluorinated greenhouse gases (PFC, SF ₆ , HFC)	CAS RN
Tetrafluoromethane (Carbon tetrafluoride, PFC-14)	75-73-0
Hexafluoroethane (PFC-116)	76-16-4
Octafluoropropane (PFC-218)	76-19-7
Decafluorobutane (PFC-31-10)	355-25-9
Dodecafluoropentane (PFC-41-12)	678-26-2
Tetradecafluorohexane (PFC-51-14)	355-42-0
Perfiuorocyclobutane (PFC C318)	115-25-3
Sulfur Hexafluoride (SF6)	2551-62-4
Trifluoromethane (HFC-23)	75-46-7
Difluoromethane (HFC-32)	75-10-5
Methyl fluoride (HFC-41)	593-53-3
2H,3H-Decafluoropentane (HFC-43-10mee)	138495-42-8
Pentafluoroethane (HFC-125)	354-33-6
1,1,2,2-Tetrafluoroethane (HFC-134)	359-35-3
1,1,1,2-Tetrafluoroethane (HFC-134a)	811-97-2
1,2-Difluoroethane (HFC-152)	624-72-6
1,1-Difluoroethane (HFC-152a)	75-37-6
1,1,2-Trifluoroethane (HFC-143)	430-66-0
1,1,1-Trifluoroethane (HFC-143a)	420-46-2
2H-Heptafluoropropane (HFC-227ea)	431-89-0
1,1,1,2,2,3-Hexafluoro-propane (HFC-236cb)	677-56-5
1,1,1,2,3,3-Hexafluoropropane (HFC-236ea)	431-63-0
1,1,1,3,3,3-Hexafluoropropane (HFC-236fa)	690-39-1
1,1,2,2,3-Pentafluoropropane (HFC-245ca)	679-86-7
1,1,1,3,3-Pentafluoropropane (HFC-245fa)	460-73-1
1,1,1,3,3-Pentafluorobutane (HFC-365mfc)	406-58-6

Refer to P.9

No.26 -	CAS RN
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1

Refer to P.10

No.31 -	CAS RN
Di-isodecyl phthalate (DIDP)	26761-40-0 68515-49-1

Refer to P.10

No.32 -	CAS RN
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0

Refer to P.10

No.33 -	-	CAS RN
Di-n-octy	yl phthalate (DNOP)	117-84-0

Refer to P.11

No.40 Radioactive Substances	CAS RN
Uranium-238	7440-61-1
Radon	10043-92-2
Americium-241	14596-10-2
Thorium-232	7440-29-1
Cesium-137	10045-97-3
Strontium-90	10098-97-2
Other radioactive substances	-

Refer to P.11

No.41 Shortchain Chlorinated Paraffins (C10-13)(SCCP)	CAS RN
Alkanes, C10-13, chloro	85535-84-8
Alkanes, C10-12, chloro	108171-26-2
Alkanes, C12-13, chloro	71011-12-6
Alkanes, chloro	61788-76-9
Other Short Chain Chlorinated Paraffins	-

Note: Only short-chain chlorinated paraffins with carbon length of 10-13 atoms are covered

Refer to P.11 : It is possible to deliver it until the effective date.

No.42 Medium-chain Chlorinated Paraffins (C14–C17, and chlorination rate of 45wt% or more)(MCCP)	CAS RN
Alkanes, C14-17, chloro (aka 'MCCP' in Europe)	85535-85-9
Alkanes, C14-16, chloro	1372804-76-6
Tetradecane, chloro derivs.	198840-65-2
Alkanes, C10-21, chloro (aka CP52 in Asia)	84082-38-2
Alkanes, C6-18, chloro	68920-70-7
Alkanes, C10-32, chloro	84776-06-7
Alkanes, C16-27, chloro	84776-07-8
Alkanes, C16-35, chloro	85049-26-9
Alkanes, C12-14, chloro	85536-22-7
Alkanes, C10-26, chloro	97659-46-6
Paraffins (petroleum), normal C>10, chloro	97553-43-0
Alkanes, C10-14, chloro	85681-73-8
Paraffin oils, chloro	85422-92-0

No.44 Chlorinated phosphate ester flame retardants (TCEP,TCPP,TDCPP)	CAS RN
Tris (2-chloroethyl)phosphate (TCEP)	115-96-8
Tris(2-chloro-1-methylethyl)phosphate (TCPP)	13674-84-5
Tris(1,3-dichloro-2-propyl) Phosphate (TDCPP)	13674-87-8

Refer to P.12

No.45 Long-Chain Perfluoroalkyl Carboxylate and Perfluoroalkyl Sulfonate Chemical Substances (LCPFACs)	CAS RN
Perfluorooctyl iodide(Octane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-8-iodo-)	507-63-1
Tetrahydroperfluoro-1-decanol(1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro)	678-39-7
Perfluoro-1-dodecanol(1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12heneicosafluoro-)	865-86-1
Perfluorodecyl iodide(Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo)	2043-53-0
1,1,2,2-Tetrahydroperfluorododecyl iodide(Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafluoro- 12-iodo)	2043-54-1
Perfluorodecylethyl acrylate(2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11, 12,12,12- heneicosafluorododecyl ester.)	17741-60-5
1,1,2,2-Tetrahydroperfluorodecyl acrylate(2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester)	27905-45-9
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-Pentacosafluoro-14-iodotetradecane (Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafluoro-14-iodo)	30046-31-2
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-Pentacosafluorotetradecan-1-ol (1-Tetradecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluoro)	39239-77-5
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-Nonacosafluorohexadecan-1-ol (1-Hexadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafluoro)	60699-51-6
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-Nonacosafluoro-16-iodohexadecane (Hexadecane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafluoro-16-iodo)	65510-55-6
Sodium;2-methylpropane-1-sulfonate	68187-47-3
1,1,2,2-Tetrahydroperfluoroalkyl(C8-C14) alcohol	68391-08-2
Thiols, C8-20, gamma-omega-perfluoro, telomers with acrylamide	70969-47-0
Silicic acid (H4 SiO4), sodium salt (1:2), reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-heptadecafluoro-1-decanol(Silicic acid (H4 SiO4), sodium salt (1:2), reaction products with chlorotrimethylsilane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decanol.)	125476-71-3
Thiols, C4-20, gamma-omega-perfluoro, telomers with acrylamide and acrylicacid, sodium salts)	1078712-88-5
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,Ndimethyl-,N-(2-((gammaomega-perfluoro-C4-20-alkyl)thio)acetyl) derivs.,inner salts	1078715-61-3
Polyfluoroalkyl betaine (generic)	-
Modified fluoroalkyl urethane (generic)	-
Perfluorinated polyamine (generic)	-

Refer to P.12

No.46	-	CAS RN
Phenol,	, isopropylated Phosphate (3:1) (PIP(3:1))	68937-41-7

Refer to P.12

No.47 -	CAS RN
Pentachlorothiophenol(PCTP)	133-49-3

No.48 Perfluorohexane-1-sulphonic acid (PFHxS), its salts and related substances	CAS RN
Perfluorohexane-1-sulphonic acid	355-46-4
potassium perfluorohexane-1-sulphonate	3871-99-6
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1)	41184-65-0
Yttrium tris(tridecafluorohexane-1-sulfonate)	41242-12-0
Lithium 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate	55120-77-9
Ammonium tridecafluorohexane-1-sulfonate	68259-08-5
Potassium salt of perfluoroalkane(C=6-12)sulfonic acid	68391-09-3
Zinc bis(tridecafluorohexane-1-sulfonate)	70136-72-0
Compound of tridecafluorohexane-1-sulfonic acid and 2,2'-iminodiethanol (1:1)	70225-16-0
Compound of tridecafluorohexane-1-sulfonic acid and triethylamine (1:1)	72033-41-1
Sodium 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate	82382-12-5
Cesium tridecafluorohexane-1-sulfonate	92011-17-1

No.48 Perfluorohexane-1-sulphonic acid (PFHxS), its salts and related substances (Continued)	CAS RN
Perfluoroalkane(C=6-12)sulfonic acid	93572-72-6
Tetrabutylammonium tridecafluorohexane-1-sulfonate	108427-54-9
Tetraethylammonium tridecafluorohexane-1-sulfonate	108427-55-0
Triphenylsulfonium tridecafluorohexane-1-sulfonate	144116-10-9
Diphenyliodonium tridecafluorohexane-1-sulfonate	153443-35-7
Tetraethylammonium fluorinated alkyl(C=1-18) sulfonate	160869-62-5
Tetramethylammonium tridecafluorohexane-1-sulfonate	189274-31-5
Compound of 2-methylpropan-2-amine and tridecafluorohexane-1-sulfonic acid (1:1)	202189-84-2
Bis(4-tert-butylphenyl)iodonium tridecafluorohexane-1-sulfonate	213740-81-9
Compounds of perfluoroalkane(C=6-8)sulfonic acid and polyethylene-polypropylene glycol bis(2-aminopropyl) ether	306974-45-8
Gallium tris(tridecafluorohexane-1-sulfonate)	341035-71-0
Phenyl(di-p-tolyl)sulfonium tridecafluorohexane-1-sulfonate	341548-85-4
Scandium tris(tridecafluorohexane-1-sulfonate)	350836-93-0
S,S,S',S'-Tetraphenyl[sulfanediylbis(4,1-phenylene)]bis(sulfonium) bis(tridecafluorohexane-1-sulfonate)	421555-73-9
Bis(4-tert-pentylphenyl)iodonium tridecafluoro-1-hexanesulfonate	421555-74-0
Tris(4-tert-butylphenyl)sulfonium tridecafluorohexane-1-sulfonate	425670-70-8
Bis(tert-butylphenyl)iodonium tridecafluorohexane-1-sulfonate	866621-50-3
Diphenyl(p-tolyl)sulfonium tridecafluorohexane-1-sulfonate	910606-39-2
[4-(Methacryloyloxy)phenyl](diphenyl)sulfonium tridecafluorohexane-1-sulfonate	911027-68-4
Polymer of 2-ethyl-2-adamantyl methacrylate / 3-hydroxy-1-adamantyl methacrylate / [4- (methacryloyloxy)phenyl](diphenyl)sulfonium tridecafluorohexane-1-sulfonate / 2-oxooxolan-3-yl methacrylate	911027-69-5
Other Perfluorohexane-1-sulphonic acid (PFHxS), its salts and related substances	e.g.

Refer to P.12 : It is possible to deliver it until the effective date for carbon length of 9-21 atoms.

No.49 Long-chain Perfluorocarboxylic acids (PFCAs), its salts and related substances	CAS RN
Perfluorononan-1-oic-acid (PFNA)	375-95-1
Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-	0.000
Nonadecafluorodecanoic acid (PFDA)	335-76-2
Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecatiuoro-	
Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heneicosafluoro-	2058-94-8
Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-tricosafluoro-	307-55-1
Tridecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-pentacosafluoro-	72629-94-8
Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-heptacosafluoro-	376-06-7
Pentadecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-nonacosafluoro-	141074-63-7
Hexadecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16- hentriacontafluoro-	67905-19-5
Heptadecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16, 17,17,17-tritriacontafluoro-	57475-95-3
Octadecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16, 17,17,18,18,18,18-pentatriacontafluoro-	16517-11-6
Nonadecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16, 17,17,18,18,19,19,19-heptatriacontafluoro-	133921-38-7
Eicosanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16, 17,17,18,18,19,19,20,20,20-nonatriacontafluoro-	68310-12-3
Perfluoroheneicosanoic acid C21	-
Perfluorononan-1-oic-acid (PFNA) ammonium salts Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, ammonium salt (1:1)	4149-60-4
Perfluorononan-1-oic-acid (PFNA) sodium salts Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, sodium salt (1:1)	21049-39-8
Nonadecafluorodecanoic acid (PFDA) sodium salts Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-, sodium salt (1:1)	3830-45-3
Nonadecafluorodecanoic acid (PFDA) ammonium salts Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-, ammonium salt (1:1)	3108-42-7
Ethanol, 2,2' -iminobis-, compd. with α -fluoro- ω -[2-(phosphonooxy)ethyl]poly(difluoromethylene) (2:1)	65530-63-4
Ethanol, 2,2′ -iminobis-, compd. with α , α' -[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω -fluoropoly(difluoromethylene)] (1:1)	65530-64-5

No.49 Long-chain Perfluorocarboxylic acids (PFCAs), its salts and related substances (Continued)	CAS RN
Poly(difluoromethylene), α , α' -[phosphinicobis(oxy-2,1-ethanediyl)]bis[ω -fluoro-, ammonium salt (1:1)	65530-70-3
Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonooxy)ethyl]-, ammonium salt (1:1)	65530-71-4
Poly(difluoromethylene), α -fluoro- ω -[2-(phosphonooxy)ethyl]-, ammonium salt (1:2)	65530-72-5
Ethanol, 2,2' -iminobis-, compd. with α -fluoro- ω -[2-(phosphonooxy)ethyl]poly(difluoromethylene) (1:1)	65530-74-7
Phosphonic acid, perfluoro-C6-12-alkyl derivs.	68412-68-0
Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs.	68412-69-1
Phosphoric acid, γ-ω-perfluoro-C8-16-alkyl esters, compds. with diethanolamine	74499-44-8
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-, 1,1' -(hydrogen phosphate)	1895-26-7
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafluoro-12-(trifluoromethyl)-, 1-	62205 27 2
(dihydrogen phosphate)	03295-27-2
1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-14- (trifluoromethyl)-, 1-(dihydrogen phosphate)	63295-28-3
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-, 1-(dihydrogen phosphate)	94158-70-0
1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-, 1- (dihydrogen phosphate)	94200-42-7
1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,17- nonacosafluoro-, 1-(dihydrogen phosphate)	94200-43-8
1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-, 1-(dihydrogen phosphate), diammonium salt	94200-46-1
1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-, 1- (dihydrogen phosphate), diammonium salt	94200-47-2
(any aregin proprieto), diaminetani dan 1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,17- nonacosafluoro- 1-(dihydrogen phosphate), diammonium salt	94200-48-3
1,2-Tridecanedio, 1,4,5,5,6,6,7,7,8,8,9,9,10,11,11,12,13,13,13-eicosafluoro-12-(trifluoromethyl)-, 1-	94200-50-7
(dinydrogen prosphate), diammonium sait 1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-14-	94200-51-8
(trifuorometnyi)-, 1-(dinydrogen phosphate), diammonium sait	207 50 0
Dedecane, 1, 1, 1, 2, 2, 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, 10, 11, 11, 12, 12, postacesafluere, 12, iode	307-50-6
1 1 1 2 2 2 2 4 4 5 5 6 6 7 7 8 8 0 0 10 10 11 11 12 12 12 13 14 14 Nonceosafiulito 12 1000	307-60-8
Pentadecane 1 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11 12 12 13 13 14 14 15 15 hentriacontafluoro 15-	307-63-1
rentadecane, 1, 1, 1, 2, 2, 3, 3, 4, 4, 3, 5, 0, 0, 7, 7, 3, 0, 3, 5, 10, 10, 11, 11, 12, 12, 13, 13, 14, 14, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	335-79-5
I ridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-heptacosatiluoro-13-iodo-	376-04-5
Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafluoro-10-iodo-	423-62-1
Nonane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-9-iodo-	558-97-4
Decane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-eicosafluoro-10-iodo-2-(trifluoromethyl)-	677-93-0
Dodecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-tetracosafluoro-12-iodo-2-(trifluoromethyl)-	3248-61-1
Tetradecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-octacosafluoro-14-iodo-2- (trifluoromethyl)-	3248-63-3
Alkyl iodides, C6-18, perfluoro	90622-71-2
Dodecane, 1, 1, 1, 2, 2, 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, 10-heneicosafluoro-12-iodo-	2043-54-1
Tetradecane, 1, 1, 1, 2, 2, 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, 10, 11, 11, 12, 12-pentacosafluoro-14-iodo-	30046-31-2
Hexadecane,1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafluoro-16-iodo-	65510-55-6
Undecane, 1, 1, 1, 2, 2, 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9-nonadecafluoro-11-iodo-	65510-56-7
Alkyl iodides, C4-20, γ-ω-perfluoro	68188-12-5
Alkyl iodides, C10-12, γ-ω-perfluoro	68390-33-0
Poly(difluoromethylene), α-[2-[(2-carboxyethyl)thio]ethyl]-ω-fluoro-, lithium salt (1:1)	65530-69-0
Poly(difluoromethylene), α-[2-[(2-carboxyethyl)thio]ethyl]-ω-fluoro-	65530-83-8
Butanoic acid, 4-[[3-(dimethylamino)propyl]amino]-4-oxo-, 2(or 3)-[(γ-ω-perfluoro-C6-20-alkyl)thio] derivs.	68187-25-7
1-Propanesulfonic acid, 2-methyl-, 2-[[1-oxo-3-[(γ-ω-perfluoro-C4-16-alkyl)thio]propyl]amino] derivs., sodium salts	68187-47-3
1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro-	865-86-1
1-Tetradecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluoro-	39239-77-5
Alcohols, C8-14, γ-ω-perfluoro	68391-08-2
1-Hexadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16,16-nonacosafluoro-	60699-51-6
1-Eicosanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16, 17,17,18,18,19,19,20,20,20-heptatriacontafluoro-	65104-65-6

No.49 Long-chain Perfluorocarboxylic acids (PFCAs), its salts and related substances (Continued)	CAS RN
1-Octadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16, 17,17,18,18,18-tritriacontafluoro-	65104-67-8
Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-, ether with α -fluoro- ω -(2-hydroxyethyl)poly(difluoromethylene) (1:1)	65545-80-4
$Poly(difluoromethylene), \ \alpha-[2-(acetyloxy)-2-[(carboxymethyl)dimethylammonio]ethyl]-\omega-fluoro-, \ inner \ salt$	71002-41-0
$Poly(difluoromethylene), \ \alpha-[2-(acetyloxy)-3-[(carboxymethyl)dimethylammonio] propyl]-\omega-fluoro-, \ inner \ salt$	123171-68-6
2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15,15-tetracosafluoro-2-hydroxy-14- (trifluoromethyl)pentadecyl ester	16083-87-7
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafluoro-13- (trifluoromethyl)tetradecyl ester	52956-82-8
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorocctyl 2-methyl-2-propenoate	65104-45-2
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-eicosafluoro-11- (trifluoromethyl)dodecyl ester	74256-14-7
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafluoro-13- (trifluoromethyl)tetradecyl ester	74256-15-8
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl ester	2144-54-9
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14- pentacosafluorotetradecyl ester	6014-75-1
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14, 15,15,16,16,16-nonacosafluorohexadecyl ester	4980-53-4
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14, 15,15,16,16,17,17,18,18,18,18-tritriacontafluorooctadecyl ester	59778-97-1
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14, 15,15,16,16,17,17,18,18,19,19,20,20,20,heptatriacontafluoroeicosyl ester	65104-66-7
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl ester	17741-60-5
2-Propenoic acid, γ-ω-perfluoro-C8-14-alkyl esters	85631-54-5
Poly(difluoromethylene), α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]-	65530-66-7
Poly(difluoromethylene), α-fluoro-ω-[2-[(1-oxo-2-propen-1-yl)oxy]ethyl]-	65605-70-1
Poly(difluoromethylene), α-fluoro-ω-(2-hydroxyethyl)-, 2-hydroxy-1,2,3-propanetricarboxylate (3:1)	65530-59-8
Poly(difluoromethylene), α-fluoro-ω-(2-hydroxyethyl)-, dihydrogen 2-hydroxy-1,2,3-propanetricarboxylate	65605-56-3
Poly(difluoromethylene), α -fluoro- ω -(2-hydroxyethyl)-, hydrogen 2-hydroxy-1,2,3-propanetricarboxylate	65605-57-4
Imidodicarbonic diamide, N,N' ,2-tris(6-isocyanatohexyl)-, reaction products with 3-chloro-1,2-propanediol and α -fluoro- ω -(2-hydroxyethyl)poly(difluoromethylene)	110053-43-5
2-Propenoic acid, 2-methyl-, C2-18-alkyl esters, polymers with α-fluoro-ω-[2-[(1-oxo-2- propenyl)oxy]ethyl]poly(difluoromethylene) and vinylidene chloride	148878-17-5
Poly(difluoromethylene), α-fluoro-ω-[2-[(1-oxooctadecyl)oxy]ethyl]-	65530-65-6
9-Octadecenoic acid (9Z)-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl ester	125768-41-4
9-Octadecenoic acid (9Z)-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14- pentacosafluorotetradecyl ester	220237-52-5
Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C6-12-alkyl)thio] derivs., compds. with diethanolamine	94095-37-1
Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C8-20-alkyl)thio] derivs., compds. with diethanolamine	71608-61-2
Butanedioic acid, monopolyisobutylene derivs., 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12- heneicosafluorododecyl ester	253682-98-3
Butanedioic acid, monopolyisobutylene derivs., 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14- pentacosafluoro tetradecyl ester	253682-97-2
1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-, 3-[(γ-ω-perfluoro-C6-20-alkyl)thio] derivs., chlorides	70983-60-7
Betaines, N-(hydroxyethyl)-N-methyl-N-(2-sulfoethyl)-N-(1,1,2-trihydroperfluoro-C8-14-2-alkenyl)	98219-29-5
Betaines, (hydroxyethyl)methyl(γ,ω-perfluoro-C8-14-β-alkenyl)(2-sulfopropyl)	115340-82-4
Quaternary ammonium compounds, (hydroxyethyl)dimethyl(γ-ω-perfluoro-C8-14-β-alkenyl), Me sulfates (salts)	92129-34-5
Quaternary ammonium compounds, trimethyl(δ - ω -perfluoro-C8-14- β -alkenyl), chlorides	115535-36-9
Quaternary ammonium compounds, diethylmethyl(γ-ω-perfluoro-C8-14-β-alkenyl), Me sulfates	127133-57-7
Quaternary ammonium compounds, diethylmethyl(γ-ω-perfluoro-C8-14-β-alkenyl), tetraphenylborates	145477-02-7
Quaternary ammonium compounds, diethylmethyl(γ - ω -perfluoro-C8-14- β -alkenyl), tetraphenylborates	153325-45-2

Poly(dfluoromethylene), a-fluoro-u-2-{[2-{limethylamioniolethyl[thio]ethyl]-, methyl sulfate (1:1) 65530-57-6 Piperaznium, 1-(carboxymethyl)-1-{2-hydroxyethyl}-4-(2.2.3.3.4.4.5.5.6.5.7,7.8.8.9,9.10.10.10-nonadecalluoro-1 711366-38-2 Sulfuric acid, monoly-u-perfluoro-C6-12-alkyl] esters, ammonium salts 68516-17-6 1-Propanaminium, 3-{[4-{[/hoptadecalluoronone-1-y](oxybenzoy][amino]-N,N.N-trimethyl-, iodide (1:1) 564433-72-0 Sulfuric acid, monoly-u-perfluoro-C6-12-alkyl] esters, ammonium salts 68236-20 Eihene, letrafluoro-, homopolyme, dfluoro-u-(2-hydroxyethyl)-, clarte, reaction products with 1.6- 68891-05-4 Perfluoro compounds, C5-18 862506-42:1 1,3-Propanediol, 2,2-bla[[(v-u-perfluoro-C4-10-alkyl]thio]methyl] dariva, phosphates 148240-84-0 2-Propanediol, 2,2-bla[[(v-u-perfluoro-C4-10-alkyl]thio]methyl] dariva, phosphates 148240-84-0 2-Propanediol, 2,2-bla[[(v-u-perfluoro-C4-10-alkyl]thio]methyl] 33784-44-6 2-Propanediol, 2,2-bla[(v-u-perfluoro-C4-10-alkyl]thio]methyl] 33784-44-6 2-Propanel acid, 2-methyl - 2-{dimethylamino]ethyl methacrylate, wu-perfluoro-C10-16-alkyl acrylate and treat/ methacrylate 333784-44-4 2-Propanel acid, 2-methyl-2-{dimethylamino]ethyl methacrylate with 8-ω-perfluoro-C10-16-alkyl acrylate and 174126-96-3 Poly(oxy-1,2-ethanediyl], a-methyl- ω-lydroxy-2-lydroxy-3-{((v-u-perfluoro-C6-20-alk	Poly(difluoromethylene), o-fluoro-u-[2][2-(trimethylammonio)ethyl[hio]ethyl], methyl sulfate (1:1) 66530-87 Piperazinium, 1-(carboymethyl)-1/2-hydroxyethyl/-4/2.2.3.3.4.4.5.5.6.6.7.7.8.8.9.9.10,10,10-nonadecalluoro-1 71366-38 Tholis, C10-20, y-u-perfluoro-C8-12-all(y) esters, ammonium salts 68316-77 Suffuri acid, mono(y-u-perfluoro-C8-12-all(y) esters, ammonium salts 68316-17 Suffuri acid, mono(y-u-perfluoro-C8-12-all(y) esters, ammonium salts 68236-62 Suffuri acid, mono(y-u-perfluoro-C4-12-all(y) esters, ammonium salts 68236-62 Suffuri acid, mono(y-u-perfluoro-C4-12-all(y)) esters, ammonium salts 68206-62 Suffuri acid, mono(y-u-perfluoro-C4-12-all(y)) esters, ammonium salts 68206-62 Suffuri acid, acid, methyl ester, polymers with acid, provide samedio-thramethiol- 688010-62 Perfluoro Componds, C5-13 68006-42 Suffuri acid, acid, methyl ester, polymers with acid anhydride, 2-[[2]- 333784-46 Peropencia acid, 2-methyl- 2-thylchoryl ester, polymers with acid and polypropylene glycol 333784-46 Peropencia acid, 2-methyl-2-dimo-2-thydroxygropyl ester, polymers with 5-all-glycotypoly ester, polymers with 5-all-glycotypoly ester, polymers with 5-all-glycotypoly esters, polymers with 5-all-glycotypoly ester, polymers with 5-all-glycotypolycen glycol 70983-69 Silvanes and Silicones, di-Me, hydroxy-terminated, polymers with	No.49 Long-chain Perfluorocarboxylic acids (PFCAs), its salts and related substances (Continued)	CAS RN
Piperazinium, 1-(carboxymethyl)-4-(2-hydroxyethyl)-4-(2-2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecalfuoro-1 71366-38-2 Thiels, C10-20, v-u-perfluoro 68140-21-6 Suffuric acid, mono(v-u-perfluoro-C6-12-alkyl) esters, ammonium salts 68140-21-6 Harding, C10-20, v-u-perfluoro-C8-12-alkyl) esters, ammonium salts 68438-72-0 Suffuric acid, mono(v-u-perfluoro-C6-12-alkyl) esters, ammonium salts 684238-72-0 Ethene, tetrafluoro-homopolymer, c-fluoro-u-(2-hydroxyethyl), citrate, reaction products with 1.6 68891-06-4 discoyanatohexane 146240-64-0 Perfluoro compounds, C5-18 146240-64-0 1.3-Propanetical caid, dimethyl ester, polymers with 2-2-bis[Kiptomomethyl)-1.3-propaneticio-tethanethiol-tetrafluoroethylene tolown reaction products 277752-44-0 2-Propenoic acid, 2-methyl, 2-ethylkeyl ester, polymers with 2-3-dihydroxypropyl methacrylate, y-u-perfluoro-C6-16-alkyl acrylate and stearyl methacrylate, y-u-perfluoro-C6-16-alkyl acrylate and stearyl methacrylate, y-u-perfluoro-C6-16-alkyl acrylate and stearyl methacrylate, y-u-perfluoro-C10-16-alkyl acrylate and stearyl methacrylate, y-u-perfluoro-14-04-14-44 2-Propenoic acid, 2-methyl, 2-dimethylaminolethyl ester, polymers with 5-u-perfluoro-C10-16-alkyl acrylate and stearyl methacrylate, y-u-perfluoro-14-04-14-04-14-04-04-04-04-04-04-04-04-04-04-04-04-04	Piperazinium, 1-(catoxymetryl)-1-(2-hydroxyetryl)-4-(2.2.3.3.4.4.5.5.6.6.7.7.8.8.9.9.10.10.10-nonadecalluoro-1 7136-38. Thiols, C10-20, Y-u-perfluoro 68140.21. Suffuria cadi, mono(Y-u-perfluoro-C8-12-alky) astars, ammonium salts 68140.21. Ethene, tetralluoro, homopolyme, o-fluoro-C8-12-alky) astars, ammonium salts 68310-5. Ethene, tetralluoro, homopolyme, o-fluoro-C4-10-alky/insters, ammonium salts 68310-5. Parfluoro compounds, C5-18 88504-42. 1.3-Propanetical, 2.2-bl(f), vu-perfluoro-C4-10-alky/integlmethyl, eltrate, reaction products with 1.6. 88504-42. 2.Propancia cad, 2-methyl, 2-athiphrosy eater, polymers with calkin anylate and steary methacylate. 24772722-44. 2.Propancia cad, 2-methyl, 2-ether polymers with nuelic anhydride. 2[(2)- 333784-46. 2.Propancia cad, 2-methyl, 2-etherhydroxypropyl eater and polynoypring site. 333784-46. 2.Propancia cad, 2-methyl-2-(dimetrylamino)ethyl ester, polymers with 5-u-perfluoro-C10-16-alkyl arylate and site and polynoyproping site. 333784-46. 2.Propancia cad, 2-methyl-2-(dimetrylamino)ethyl ester, polymers with 5-u-perfluoro-C10-16-alkyl arylate. 333784-46. Polycox, 1-2-athanedkyl, ask, 8, 8, 9, 10, 10, 11-112, 12, 13, 13, 14-14-pecabuloro- 678-397. Polycox, 1-2-athanedkyl, ask, 8, 8, 9, 8, 9, 10, 10, 11-112, 12, 13, 13, 14-14-16-20-20-21-414/(hibitoromethyl)-	Poly(difluoromethylene), α -fluoro- ω -[2-[[2-(trimethylammonio)ethyl]thio]ethyl]-, methyl sulfate (1:1)	65530-57-6
Thile, C10-20, y-u-perfluoro 68140-21-6 Sulfuric acid, monoly-u-perfluoro-C6-12-alkyl) esters, ammonium salts 68216-17-6 1-Propanaminum, 3-[14-[ftippadecaffuoro-noe-1-yl]oxy[benzoy[Jamino]-N.N.N-trimethyl-, iodide (1:1) 59433-72-0 Sulfuric acid, monoly-u-perfluoro-C8-12-alkyl) esters, ammonium salts 84238-62-0 Ethere, letraluoro-, homopylmer, 6-fluoro-C4-10-alkyl]thio]methyl], clirate, reaction products with 1.6- 68698-42-1 1.3-Propanediol, 2.2-bis[[(y-u-perfluoro-C4-10-alkyl]thio]methyl] farva, phosphates 146240-64-0 Perfluoro compunds, C5-18 84508-42-1 1.3-Propanediol, acid, dimethyl ester, polymers with 2.2-bis[(y-u-perfluoro-C4-10-alkyl]thio]methyl]-1.3-propanediol-ethanethiol- 277752-44-0 2-Propenoic acid, 2-methyl, 2-ethylnexyl ester, polymers with 2.2-bis[(y-u-perfluoro-C6-10-alkyl acrylate and stearyl methacrylate, y-u-perfluoro-C5-16-alkyl acrylate and stearyl methacrylate, y-u-perfluoro-C6-16-alkyl acrylate and stearyl methacrylate, y-u-perfluoro-C6-16-alkyl acrylate and stearyl methacrylate, y-u-perfluoro-C6-16-alkyl acrylate and stearyl methacrylate, y-u-perfluoro-c4-2-balky acrylate, polymers with 5-4-offluoro-generityl acrylate and stearyl methacrylate, y-u-perfluoro-C6-16-alkyl acrylate and stearyl methacrylate, y-u-perfluoro-C7-6-alkyl acrylate and stearyl methacrylate, y-u-perfluoro-C10-16-alkyl acrylate and stearyl methacrylate, y-u-perfluoro-C6-16-alky acrylate, polymery with fartadecandiol caid, 3.344,55,6,6,7,7,8,8,9,9,10,10,11,112,12,13,114,14,14,14,14,14,14,14,14,14,14,14,14	Troito, C10-20, y-u-perfluoro 6814-02-1 Sulfaric acid, mono(y-u-perfluoro-C6-12-alky) estars, ammonium salts 6816-17. 1-Propanaminium, 3[14-[Inpactace_fluoronone-1-y()oxy[benzoy[Janino]-N,N-trimetryk, lodide (1:1) 59493-72. Sulfaric acid, mono(y-u-perfluoro-C6-12-alky) esters, ammonium salts 84238-62. Elhene, letrafluoro, homopolyme, a-fluoro-c4-10-alky/throyethy/), citrate, reaction products with 1,6- 68810-65. Perfluoro compounds, C5-18 84504-22. 1-2-Propanetical, 2.2-bit([Invo-perfluoro-C4-10-alky/throjmetryl] derivs, phosphates 148240-84. Hexanedica acid, dimethyl-ester, polymetrs with 2.2-bit(promometryl)-1.3 propanetiol-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethiol-tentanethiol-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tentanethylio-tenane	Piperazinium, 1-(carboxymethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1- oxodecyl)-, inner salt	71356-38-2
Sulfuric acid, monq(v-u-perfluoro-C6-12-alky) esters, ammonium satts 66516-17-6 1-Propanaminium, 3-[[4]-{(heptadecalluorononen-1-yloxy]benzoyl]amino]-N.N.Hrimethyl-, iodide (1:1) 59493-72-0 Sulfuric acid, monq(v-u-perfluoro-C8-12-alky) esters, ammonium satts 84238-62-0 Ethene, tetrafluoro, homopolymer, a-fluoro-u-(2-hydroxyethyl)-, citrate, reaction products with 1.6- 66891-05-4 disocynantohexane 86508-42-1 1,3-Propanediol: acid, dimethyl-setter, polymers with 2.2-bis(promomethyl)-1,3-propanediol-ethanethiol- 277752-44-0 2-Propencic acid, 2-methyl-, 2-ethylbavg tester, polymers with 2.2-bis(promomethyl)-1,3-propanediol-ethanethiol- 277752-44-0 2-Propencic acid, 2-methyl-, 2-ethylbavg tester, polymers with 3-dividrokoyroppy interhacrylate, y-u- 333784-46-6 2-Propencic acid, 2-methyl-, 2-ethylbavg tester, polymers with 3-dividrokoyroppy interhacrylate, y-u- 333784-44-4 unonomethacrylate 2-Propencic acid, 2-methyl-, 2-dimethylaminolethyl ester, polymers with 3-dividrokoyroppy interhacrylate and 174125-96-3 2-Propencic acid, 2-methyl-, 2-dimethylaminolethyl ester, polymers with 1-dividcanch-terminated 18200-77-2 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,14,14-texacosafluoro-16 678-39-7 Poly(divoromethylene), a-fluoro-U-Q-Q-polymero with acrylate calcid acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12,40coosafluoro-11-(trifluorometh	Suffuric acid, mondy-u-perfluoro-C6-12-alky) esters, ammonium salts 66516-17- 1-Propanaminum, 3-[[4]-[(heptadealluorononen-1ylloxy]benzoy][anno]-N,N,N-trimethyl-, iodide (1:1) 56493-72- Suffuric acid, mondy-u-perfluoro-C8-12-alky) esters, ammonium salts 6823-82- Ethen, tetrafluoro-, homopolymer, e-fluoro-ca-(2-hydroxyethyl)-, citrate, reaction products with 1.6- 68891-05- Giasoparatokexane 68504-42- 1-3-Proparedia-22-bis[[/v-operfluoro-C4-10-alky]/thio]methyl] derivs, phosphates 148240-84 Hexanedioic acid, 2-methyl-2-ethylhexyl ester, polymers with 2.2-bis[promomethyl-1.3-propanedioi-ethanethiol- tetrafluoroshylone tolonor radiosta. 277752-44 2-Propenoic acid, 2-methyl-2-ethylhexyl ester, polymers with acids antyldroxyrpotyl methacrylate (2- experimence acid, 2-methyl-2-ethylhexyl ester, polymers with acids antyldroxyrpotyl methacrylate (2- alkyl) acrylate and zero (2-methyl-2-ethylhexyl ester, polymers with 5-u-perfluoro-C10-16-alkyl acrylate and viryl acettal (2- propenoic acid, 2-methyl-2-(dimethylamino)ethyl methacrylate (2- wiryl acettal) 174125-96 Poly(Qury-1.2-athanedhyl), a-methyl-u-hydroxy-2-l-hydroxy-3((v-u-perfluoro-C6-02-alkyl)thio]propyl ethers 70983-56- Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with 5-u-perfluoro-C6-02-alkyl thio]propyl ethers 70983-56- Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with 5-traceosafluoro-11-(trifluoromethyl)- 70983-56- Siloxanes and Sili	Thiols, C10-20, γ-ω-perfluoro	68140-21-6
1-Progenaminum, 314-{(heptadecafluoronnen-1-i)loxy]benzoy]amio]-N.N.H-trimethyl-, iodide (1:1) 59493-72-0 Suffuric acid, mono(v-u-perfluoro-C8-12-alkyl) esters, ammonium salts 84238-62-0 Ethene, tetrafluors, homopoyme, a-fluoro-U2-hydroxyethyl), cirate, reaction products with 1,6- 68891-05-4 discognantohexane 8660-42-1 Perfluoro compounds, C5-18 8660-42-1 1.3-Propencia acid, 2-bis[((y-u-perfluoro-C4-10-alkyl)thio]methyl] derivs., phosphates 148240-84-0 Haxanediol: acid, dimethyl ester, polymers with 22-bis[bromomethyl-1-3-propanediol-ethanethiol- tetrafluoroshylene telomer reaction products 333784-46-6 2-Propencia acid, 2-methyl-, 2-ethylhoxyl ester, polymers with 2.3-dihydroxypropyl methacrylate 333784-46-4 2-Propencio acid, 2-methyl-, 3-chloro-2-hydroxyncopyl ester, polymers with 2.3-dihydroxypropyl methacrylate 333784-44-4 2-Propencio acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with 2.3-dihyl/bio]propyl ethers 70983-69-4 Siloxanes and Silicones, di-Me, hydroxy-a-hydroxy-3-{(y-u-perfluoro-C6-20-alkyl)hib]propyl ethers 70983-69-4 Siloxanes and Silicones, di-Me, hydroxy-etherminated, polymers with tetradecanetic acid, 182700-77-2 3.3.4.5.5.6.6.7.7.8.8.9.9.10.10.11+11.2.12.13.13.14//silosalluoro-11-(miluoromethyl)- 16833329-6 Polyd(Biluromethylee), eduro-u-422(phosphoroxy)ethyl-1 68333	1-Propaganmium, 3[4]-[hpptadecalurononen-1y]usy]benzy[Jamino]-N.N.N-trimetryl-, ioidide (1:1) 5943-72- Sulfuric acid, mono(r-u-perfluoro-C8-12-alky)] esters, ammonium salta 6423-62- Ethere, terrafluoro, homopolymer, afluoro-u-(2-hydroxyethyl), citrate, reaction products with 1.6- 66891-05- Perfluoro Compounds, C5-18 8660-42- 1.3-Propanediol, 2,2-bill[(v-u-perfluoro-C4-10-alky]]/hio]methyl] derivs, phosphates 14820-40- 4.4820404 2-Propanediol, 2,2-bill(v-u-perfluoro-C4-10-alky)[hio]methyl] derivs, phosphates 14820-40- 2-Propencic acid, 2-methyl-c-setter, polymers with acid analydroxyproyl methacylate, y-u- perfluoro-C8-16-alky acylate, polydethylene glycol methacylate, 24(f2- 33784-44 Propencic acid, 2-methyl-c-sethore-2-hydroxyproylester, polymers with 3-u-perfluoro-C10-16-alkyl acylate and y-perfluoro-C8-16-alkyl acylate, polydethylene glycol methacylate y-u- perfluoro-C8-16-alkyl acylate, polydethylene glycol methacylate with 3-u-perfluoro-C8-10-alkyl fino[propy] ethers 7083-39- Silvaanes and Silcones, di-W6, hydroxy-eterninated, polymers with betradecanedio acid, 33.4.4.5.6.6.6.7.7.8.8.9.9.10.11.11.12.12.13.13.13.10.20.20.10.01.01.01.01.01.01.01.01.01.01.01.01	Sulfuric acid, mono(γ-ω-perfluoro-C6-12-alkyl) esters, ammonium salts	68516-17-6
Suffritic acid, mono(v-u-perfluoro-C8-12-alky) esters, ammonium satts. 84238-62-0 Ethene, tetrafluoro, homopolymer, a-fluoro-u-(2-hydroxyethyl), citrate, reaction products with 1,6- 68891-05-4 Inisocyanationes, homopolymer, a-fluoro-u-(2-hydroxyethyl), citrate, reaction products with 1,6- 68891-05-4 1,3-Propanediol, 22-bit[[V-u-perfluoro-C4-10-alkyl]thio]methyl] derivs., phosphates 148240-84-0 2-Propencic acid, 2-methyl. 2-ethylhexyl ester, polymers with 2,2-bic[bromomethyl)-1,3-propanediol-ethanethiol- 277752-44-0 2-Propencic acid, 2-methyl. 2-ethylhexyl ester, polymers with 2,3-bic/bromomethyl-1,3-propanediol-ethanethiol- 33784-46-6 2-Propencic acid, 2-methyl. 2-ethylhexyl ester, polymers with 2-and/pdroxypropyl methacrylate, y-u- 33784-44-6 2-Propencic acid, 2-methyl. 2-olimot-2-dytroxypropyl ester, polymers with 3-dind/moxypropyl methacrylate and vinyl acetate 174125-96-3 Poly(oxy-1,2-ethanedyl), e-methyl-u-hydroxy-z-hydroxy-3-{(y-u-perfluoro-C10-16-alkyl acrylate and vinyl acetate 174125-96-3 Poly(oxy-1,2-ethanedyl), e-methyl-u-hydroxy-z-hydroxy-3-{(y-u-perfluoro-C6-20-alkyl)thio]propyl ethers 70933-59-4 Siloanes and Silicones, di-Me, hydroxy-derminated, polymers with terrafecaneduolic acid, 33, 34, 45, 56, 6, 77, 88, 9, 9, 10, 10, 11, 12, 12, 12, 13, 13, 41, 14, 140, 140, 140, 140, 140, 140,	Suffuric acid, mono(v-u-perfluoro-C6-12-alky) esters, ammonium safts 84236-62- Ethene, tetrafluoro-, homopolymer, e-fluoro-u-(2-hydroxyethyl)-, citrate, reaction products with 1.6- 68891-06- DiscopsinatioNexane 6600-82- 1.3-Propanedia, 22-bi8[(v-u-perfluoro-C4-10-alky)(thio)/methyl] derivs, phosphates 148240-84 1.3-Propanedia, 22-bi8[(v-u-perfluoro-C4-10-alky)(thio)/methyl] derivs, phosphates 148240-84 1.4-Propanedia, 22-bi8[(v-u-perfluoro-C4-10-alky)(thio)/methyl] derivs, phosphates 148240-84 1.4-Propanedia, 22-bi8[(v-u-perfluoro-C4-10-alky)(thio)/methyl] derivs, phosphates 148240-84 2-Propencia caid, 2-methyl-, 2-ethylhexyl ester, polymers with 2-aditydroxyponyl methacrylate 33784-44 2-Propencia caid, 2-methyl-, 2-dimethylamino)ethyl ester, polymers with 2-aditydroxyponyl methacrylate, y-u- perfluoro-C5-16-alkyl acrylate, hydroxyl-emisediae, due ether and polypropylene glycol 174125-66 Poly(oxy-1.2-ethanediyl), a-methyl-u-hydroxy-2-hydroxyl-3-((v-u-perfluoro-C6-20-alky)(thio)propyl ethers 70883-59- Silovanes and Siloones, di-Mk, hydroxyl-emisediae polymers with hetradscaneloic acid, 3-3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12,4-docosafluoro-11-(trifluoromethyl)- 678-397 Poly(offic)-713, perfluoro 678-337 678-337 68913302- Pathy adis, C7-13, perfluoro 678337 678-397 7198-66 <td>1-Propanaminium, 3-[[4-[(heptadecafluorononen-1-yl)oxy]benzoyl]amino]-N,N,N-trimethyl-, iodide (1:1)</td> <td>59493-72-0</td>	1-Propanaminium, 3-[[4-[(heptadecafluorononen-1-yl)oxy]benzoyl]amino]-N,N,N-trimethyl-, iodide (1:1)	59493-72-0
Ethens, lstrafluoro-, homopolymer, a-fluoro-u-(2-hydroxyethyl)-, citrate, reaction products with 1,6- 66891-05-4 Herriuro compounds, C5-18 66508-42-1 1,3-Propaneticil, 2,2-bill(Y-u-perfluoro-C4-10-alkyl)thio]methyl] derivs., phosphates 148240-84-0 Hexanedicic acid, dimethy lestr, polymers with 2,2-bill(brownethyl)-1,3-propaneticil-ethanethiol- tetralluoroethylene telomer reaction products 277752-44-0 2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers with 2,3-dihydroxypropyl methacrylate mercapitethycles, polyethylene glycol methacrylate Me ether and polypropylene glycol 333784-44-6 2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers with 5-u-perfluoro-C10-16-alkyl acrylate, polyethylene, polyethylene, polyethylene, polyethylene, polyethylene, polyethylene, polyethylene, polyethylene, etheryl-u-hydroxy-2-lydroxyp-3-{(y-u-perfluoro-C10-16-alkyl acrylate and vinyl acetate 174125-96-3 Poly(oxy-1,2-ethanediyl), u-methyl-u-hydroxy-, 2-hydroxy-3-{(y-u-perfluoro-C10-16-alkyl acrylate and vinyl acetate 1682700-77-2 3:3:4:4:5.6:6,7.7.8:8:9.3:0:10.10.11,111,12,12;13:13-hicosafluoro-1-tridecanol-terminated 182700-77-2 3:3:4:4:5.6:6,7.7.8:8:9.3:0:10.10.11,112,12;12:12-docosafluoro-11-(trifluoromethyl)- 66533-97 Poly(diffuormethyle)- experiments with serylamide 66533-96-12 Thoils, C6-20, v-u-perfluoro, telomers with serylamide 7098-349-4 Dodecanoic acid, 2,2:3:3:4:4:5:5:6:6,7.7.8:8:9:9.10.10.1	Ethene, tetrafluoro, bomopolymer, a-fluoro-u-(2-hydroxyethyl), citrate, reaction products with 1.6- disocynantohesane 68991-05- 9erfluoro compounds, C5-18 1,3-Propanedioi, 2.2-Bill([v-u-perfluoro-C4-10-alkyl)thio]methyl] derivs, phosphates 14820-44 Hexanedioi, cai, dimethyl ester, polymers with 2.2-bis(promomethyl)-1,3-propanediol-ethanethiol- tetrafluoroethylene telonor reaction products 277752-44 2-Propencic aci, 2-methyl-z-ethylhexyl ester, polymers with aci-alkyl acylate and stearyl methacylate acid, 2-methyl-acid, 2-methyl-acid, 2-methyl-acylate, y-u-perfluoro-C8-16-alkyl acylate and stearyl methacylate, y-u- perfluoro-C4-16-alkyl acylate, polyethylene glycol methacylate Me ether and polypropylene glycol winyl acetate 333784-44 2-Propencic acid, 2-methyl-2-(dimethylamino)ethyl ester, polymers with 5-dimotoro-C10-16-alkyl acylate and winyl acetate 174125-96 Polycoxy-1.2-ethanediyl), a-methyl-w-hydroxy-2-hydroxy-3-((w-w-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-59 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecaneticic acid, 3.3.4.4.5,6.8.6,7.7.8.8,9.9,10,10,11,11,21,21,31,31,31-throsealfuoro-1-tridecano1-terminated 182700-77 Theids, C5-20, w-perfluoro 6633-392 Poly(diffuoromethyle, a-fluoro-u-Q2(phosphonooxylethyl) 6633-392 Theids, C5-20, w-perfluoro tenemes with acylamide 70969-47- 1683-392 Theids, C5-20, y-perfluoro tenemes with acylamide 70969-47- 16833-392 Tobaccanoly fluoride,	Sulfuric acid, mono(γ-ω-perfluoro-C8-12-alkyl) esters, ammonium salts	84238-62-0
Perfluoro compounds, C5-18 86508-42-1 1.3-Propanetidic, 2,2-bill((-ω-perfluoro-C4-10-alky)(bilo)(methyl) derivs., phosphates 148240-84-0 Hexaneditic acid, dimethyl betr, polymers with 2,2-bill(brownerthyl)-1,3-propanetidio-ethanethiol- tetrafluoroethylene telecomer reaction products 277752-44-0 2-Propenoic acid, 2-methyl., 3-chitoro-2-hydroxypropyl ester, polymers with analeic anhydride, 2-[[[2- mercaploteltoxy)(carbory)[lamito]ethyl methacrylate, v-u-perfluoro-C8-16-alkyl acrylate and stearyl methacrylate 333784-44-6 2-Propenoic acid, 2-methyl., 3-chitoro-2-hydroxypropyl ester, polymers with 2-ω-perfluoro-C10-16-alkyl acrylate and vinyl acetate 333784-44-4 2-Propenoic acid, 2-methyl., 3-chitoro-2-hydroxypropyl ester, polymers with δ-ω-perfluoro-C10-16-alkyl acrylate and vinyl acetate 174125-96-3 Poly(coyr.1,2-ethanediyl), a-methyl-ω-hydroxy, 2-hydroxy.3-[(v-ω-perfluoro-C6-20-alky)]thio]propyl ethers 70983-59-4 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedicic acid, 33.44,55,66,7.7,88,9,9,10,10,11,11,21,21,31,31-31-incoalluoro-1-indecanol-terminated 182700-77-2 1.0-bacanol, 3,3,4,4,55,66,7,7,8,8,9,9,10,0,0,11,12,12,12,12-docosafluoro-11-(trifluoromethyl)- 66533-92-6 Fatty acids, C7-19, perfluoro 66533-10,0 18024-09-4 Dodecanoly fluoride, 2,2,3,3,4,4,55,6,6,7,7,8,8,9,9,10,0,0,11,11,21,21,2-docosafluoro-11-(trifluoromethyl)- 16486-96-7 Tetradecanoly fluoride, 2,2,3,3,4	Perfusion compounds, C5-18 86508-42- 1,3-Propaneticl, 2.2-bis[[(γ-u-perfluoro-C4-10-alkyl)thio]methyl] derivs., phosphates 142820-48 Hexanedici, acid, dimethyl ester, polymers with 2.2-bis[foromentlyl)-1,3-propanedicl-ethanethiol- tetrafluoroethylene telemer reaction products 277752-44 2-Propencic acid, 2-methyl-, 2-ethylhexyl ester, polymers with maleic anhydride, 2-[[(2- mercaptoethoxy)carbonyl]amino]ethyl methacrylate, y-u-perfluoro-C6-16-alkyl acrylate and stearyl methacrylate, y-u- operfluoro-C8-16-alkyl acrylate, polyethylene glycol methacrylate Me ether and polypropylene glycol moromethacrylate 333784-44 2-Propencic acid, 2-methyl-, 2-dimethyl-uhrydroxy, 2-hydroxy-3-[(y-u-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-59- Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with 5-u-perfluoro-C10-16-alkyl acrylate and trying acetate 182700-77 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with achalecanetiolic acid, 3.3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11-12,12,2,13,13,14ccosafluoro- 182700-77 Poly(diffuoromethylene), o-fluoro-u-[2-(phosphonooxylethyl]. 65530-61. 77692-97 Thoids, C2-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,12-docosafluoro-11-(triffuoromethyl). 1903201- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- (triffuoromethyl). 1902-409- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- (triffuoromethyl).	Ethene, tetrafluoro-, homopolymer, α-fluoro-ω-(2-hydroxyethyl)-, citrate, reaction products with 1,6- diisocvanatohexane	68891-05-4
1.3-Propanediol, 2.2-bis[((-u-perfluoro-C4-10-alky))thio]methy[) derivs., phosphales 148240-84-0 Hexanadioic acid, dimethy[ester, polymers with 2.2-bis[(bromomethy])-1,3-propanediol-ethanethio]- terrafluoro-derivation teraction products 277762-44-0 2-Propencic acid, 2-methyl-, 2-ethylhexyl ester, polymers with maleic anhydride, 2[[2- mercaptoethxy]cachoy]methylhexyl ester, polymers with achyl acylate and stearyl methacrylate and polyloxy-propencic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers with 2-3-dihydroxypropyl methacrylate and polyloxy-12-ethanediyl, ac-methyl-, 2-(dimethylamino)ethyl ester, polymers with 2-u-perfluoro-C10-16-alkyl acrylate and invingl acetate 174125-98-3 Poly(oxy-1.2-ethanediyl), ar-methyl-u-hydroxy-, 2-hydroxy-3-[(Y-u-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-59-4 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedic acid, 3.3.4.4.5.5.6.6.7.7.8.8.9.9.10, 10, 10-10-heptadecalluoro-1-tridecanol-terminated 182700-77-2 1-bacenol, 3.4.4.5.5.6.6.7.7.8.8.9.9.10, 10, 11.12, 12, 12-docosafluoro-11-(trifluoromethyl)- featy acids, C7-13, perfluoro 68333-92-6 Patry acids, C7-13, perfluoro 68333-99.10, 10, 11.12, 12, 12-docosafluoro-11-(trifluoromethyl)- featy acids, C7-13, perfluoro 18024-09-4 Dodecanoyi fluoride, 2.2.3.3.4.4.5.5.6.6.7.7.8.8.9.9.10, 10, 11.12, 12, 12-docosafluoro-11-(trifluoromethyl)- featy acids, C7-13, perfluoro 68033-92-6 Patry acids, C7-13, perfluoro 68035-89.2.0 18024-09-4 Chridocomethyl-10- featy acids, C2.	1.3-Propanetiol, 2.2-bis[[(v-u-perfluoro-C4-10-alky])thio]methy]] derivs., phosphates 148240-84 Hexanedioic add, dimethyl ester, polymers with 2.2-bis[tromomethyl-1.3-propanediol-ethanethiol- tertalluorethylen tellomer reaction produces 277752-44 2-Propencic add, Z-methyl-, Z-ethylthexyl ester, polymers with alleic anhydride, 2-[[(2- mercaptoethylon etiolomer calculary plant) at y-u-perfluoro-C8-16-alkyl arrylate and stearyl methacrylate, y-u- perfluoro-C8-16-alkyl acrylate, polyethylene glycol methacrylate (v-u-perfluoro-C6-16-alkyl acrylate and vinyl acetate 333784-46 2-Propencic add, Z-methyl-, 2-(dimethylamino)ethyl ester, polymers with 2-a-perfluoro-C10-16-alkyl acrylate and vinyl acetate 74125-96 Poly(Glycoy-1.2-ethanediyl), o-methyl-u-hydroxy-, 2-hydroxy-3-((v-u-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-89- Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with b-ta-perfluoro-C10-16-alkyl acrylate and vinyl acetate 182700-77 3.3.4.5.5.6.6.7.7.8.8.9.9.10.10.11.11.21.21.3.13.13-throseal/uoro-14-indecand-terminated 182700-77 3.3.4.5.5.6.6.7.7.8.8.9.9.10.10.11.11.12.12.12.12-docosafluoro-11-(trifluoromethyl- Poly(Gliuromethylene), -d-triboneou-J2-(2-photphonoxy)ethyl)- 68333-80- Toidecanoic acid, 2.2.3.3.4.4.5.5.6.6.7.7.8.8.9.9.10.10.11.11.21.21.21.2-docosafluoro-11-(trifluoromethyl)- 16486-96- Tetradecanoic acid, 2.2.3.3.4.4.5.5.6.6.7.7.8.8.9.9.10.10.11.11.21.21.21.3.04.14.14-hexacosafluoro-13- (trifluoromethyl)- 16486-96- Tetradecanoic acid, 2.2.3.	Perfluoro compounds, C5-18	86508-42-1
Hexanedioic acid, dimethyl ester, polymers with 2,2-bis(bromomethyl)-1.3-propanediol-ethanethiol- tetrafluoroethylene teloriner reaction products 277752-244-0 2-Propencic acid, Zmethyl, Z-ethylhagy tester, polymers with maleic anhydride, 2-[1(2- mercaptoethoxy)carbony]aminolethyl methacrylate, v-u-perfluoro-C8-16-alkyl acrylate and stearyl methacrylate 333784-46-6 2-Propencic acid, Zmethyl-, 3-chlioro-2-hydroxypropy lester, polymers with 2-3-thiprotecypropyl methacrylate, v-u- perfluoro-C8-16-alkyl acrylate, solution 2-withyl-2-(dimethylamino)ethyl ester, polymers with 5-u-perfluoro-C10-16-alkyl acrylate and vinyl acetate 174125-96-3 Poly(oxy-1.2-ethanediyl), a-methyl-u-hydroxy-, 2-hydroxy-3-[(v-u-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-59-4 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanediolic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11-11,12,12,13,13-tricosafluoro-1-tridecanol-terminated 182700-77-2 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Petpadecafluoro- 678-39-7 Poly(diffuormethylene), chloro-us-[2,6]nebsphonoxy)ethyl]- 66533-661-2 Thiols, C8-20, v-u-perfluoro 68333-82-6 Fatty acids, C7-13, perfluoro 68333-82-6 Fatty acids, C7-13, perfluoro 68333-82-6 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16841-66-67 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-thexacosafluoro-13-	Hexanedioic add, dimethyl ester, polymers with 2.2-bis(bromomethyl)-1.3-propanediol-ethanethiol- tetrafluorethylene telomer reaction products 277752-44 2-Propencie add, 2-methyl-, 2-ethylhexyl ester, polymers with maleic anhydride, 2-[[(2- mercaptoathoxy)carbonyl]aminolethyl methacylate, v-a-perfluoro-C8-16-alkyl acrylate and stearyl methacylate, v-a- perfluoro-C8-16-alkyl acrylate, polyethylene glycol methacrylate Me ether and polypropylene glycol monomethacrylate 333784-44 2-Propencic add, 2-methyl-, 2-ditylhexyl ester, polymers with 3-du-perfluoro-C10-16-alkyl acrylate and tyruly acatate 333784-44 2-Propencic add, 2-methyl-, 2-ditylene glycol methacrylate Me ether and polypropylene glycol monomethacrylate 70883-59- Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with 3-du-perfluoro-C10-16-alkyl acrylate and tyruly acatate 1182700-77 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with acuperfluoro-C10-16-alkyl acrylate and tyruly acatate 182700-77 Poly(diffluoromethylene), o-fluoro-u-[2-(phosphonooxylethyl]- 65530-617 Theas, C7-13, perfluoro 65339-61 Poly(diffluoromethylene), c-fluoro-u-[2-(phosphonooxylethyl]- 16826-92 Dodecanoic acid, 2.2.3.3.4.4.5.5.6.6.7.7.8.8.9.9.10.10.11.11.2.1.2.1.2.1.4.14.4.hexacosafluoro-13- (trifluoromethyl)- 16826-63-7 Dodecanoic acid, 2.2.3.3.4.4.5.5.6.6.7.7.8.8.9.9.10.10.11.11.2.1.2.1.3.1.4.1.4.14.hexacosafluoro-13- (trifluoromethyl)- 68056-63-7 Dodecanoic ac	1,3-Propanediol, 2,2-bis[[(γ-ω-perfluoro-C4-10-alkyl)thio]methyl] derivs., phosphates	148240-84-0
2-Propenoic acid, 2-metryl-, 2-ethyfhexyl ester, polymers with maleic anhydride, 2-[[(2- mercaptoethoxy)carbony]aminojethyl methacrylate, y-u-perfluoro-C8-16-alkyl acrylate and stearyl methacrylate 333784-46-6 2-Propenoic acid, 2-metryl-, 3-chloro-2-hydroxypropyl ster, polymers with Z3-dihydroxypropyl methacrylate, y-u-perfluoro-C8-16-alkyl acrylate, p-u-perfluoro-C8-16-alkyl acrylate, y-u-perfluoro-C8-16-alkyl acrylate, y-u-perfluoro-C8-16-alkyl acrylate, y-u-perfluoro-C8-16-alkyl acrylate, y-u-perfluoro-C8-16-alkyl acrylate, y-u-perfluoro-C8-16-alkyl acrylate, y-u-perfluoro-C8-16-alkyl acrylate and yinyl acetate 174125-96-3 Poly(oxy-1.2-ethanediyl), a-metryl-u-hydroxy-z-hydroxy-3-{(y-u-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-59-4 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedioic acid, 3.3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,1-11,12,12,13,13-tricosafluoro-1-tridecanol-terminated 182700-77-2 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,13,13-tricosafluoro-1-tridecanol-terminated 182700-77-2 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 66833-92-6 Patty acids, C7-13, perfluoro 6833-92-6 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96-7 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 <td>2-Propenoic acid, 2-methyl- 2-ethylheoyl ester, polymers with maleic anhydride, 2-ff(2- mercaptoethoxy)carbony[aminolethyl methacrylate, v-u-perfluoro-C8-16-alkyl acrylate and stearyl methacrylate 333784-44 2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxymopyl ester, polymers with 3-2-dihydroxypropyl entacrylate, v-u-perfluoro-C8-16-alkyl acrylate, polymers with 3-2-dihydroxypropyl entacrylate, v-u-perfluoro-C8-16-alkyl acrylate, and y-methyl-u-hydroxy-, 2-hydroxy-3-{(y-u-perfluoro-C6-20-alkyl)thio]propyl ethers 333784-44 2-Propenoic acid, 2-methyl-, 2-dimethylamino)ethyl ester, polymers with 5-u-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-59 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedicic acid, 182700-77 3.3, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, 10, 11, 11, 21, 21, 31, 31 atricosalluoro-1-tridecanol-learninated 70989-47- Thois, C8-20, v-u-perfluoro 678-39-7 Poly(diffuoromethylene), a-fluoro-u-2/cphosphonoxy)ethyl] 66530-61- Thois, C8-20, v-u-perfluoro 6833-92- Fatty acids, C7-13, perfluoro 6833-93-01, 01, 11, 12, 12, 12, 12-docosafluoro-11-(triffuoromethyl)- 15811-52- Dodecanoic acid, 2, 23, 3, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, 10, 11, 12, 12, 12, 44, 14, 14-hexacosafluoro-13- (triffuoromethyl)- Dodecanoic acid, 2, 2, 3, 3, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, 10, 11, 12, 12, 13, 14, 14, 14-hexacosafluoro-13- (triffuoromethyl)- Dodecanoic acid, 2, 2, 3, 3, 4,</td> <td>Hexanedioic acid, dimethyl ester, polymers with 2,2-bis(bromomethyl)-1,3-propanediol-ethanethiol- tetrafluoroethylene telomer reaction products</td> <td>277752-44-0</td>	2-Propenoic acid, 2-methyl- 2-ethylheoyl ester, polymers with maleic anhydride, 2-ff(2- mercaptoethoxy)carbony[aminolethyl methacrylate, v-u-perfluoro-C8-16-alkyl acrylate and stearyl methacrylate 333784-44 2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxymopyl ester, polymers with 3-2-dihydroxypropyl entacrylate, v-u-perfluoro-C8-16-alkyl acrylate, polymers with 3-2-dihydroxypropyl entacrylate, v-u-perfluoro-C8-16-alkyl acrylate, and y-methyl-u-hydroxy-, 2-hydroxy-3-{(y-u-perfluoro-C6-20-alkyl)thio]propyl ethers 333784-44 2-Propenoic acid, 2-methyl-, 2-dimethylamino)ethyl ester, polymers with 5-u-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-59 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedicic acid, 182700-77 3.3, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, 10, 11, 11, 21, 21, 31, 31 atricosalluoro-1-tridecanol-learninated 70989-47- Thois, C8-20, v-u-perfluoro 678-39-7 Poly(diffuoromethylene), a-fluoro-u-2/cphosphonoxy)ethyl] 66530-61- Thois, C8-20, v-u-perfluoro 6833-92- Fatty acids, C7-13, perfluoro 6833-93-01, 01, 11, 12, 12, 12, 12-docosafluoro-11-(triffuoromethyl)- 15811-52- Dodecanoic acid, 2, 23, 3, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, 10, 11, 12, 12, 12, 44, 14, 14-hexacosafluoro-13- (triffuoromethyl)- Dodecanoic acid, 2, 2, 3, 3, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, 10, 11, 12, 12, 13, 14, 14, 14-hexacosafluoro-13- (triffuoromethyl)- Dodecanoic acid, 2, 2, 3, 3, 4,	Hexanedioic acid, dimethyl ester, polymers with 2,2-bis(bromomethyl)-1,3-propanediol-ethanethiol- tetrafluoroethylene telomer reaction products	277752-44-0
mercaptoethoxy/carbonyljaminolethyl methacrylate, y-u-perfuoro-C8-16-aikyl acrylate and stearyl methacrylate, y-u perfuoro-C8-16-aikyl acrylate, polyettylene glycol methacrylate Me ether and polypropylene glycol 333784-44-4 z-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers with 2,3-dihydroxypropyl methacrylate and y-perfutoro-C8-16-aikyl acrylate, polyettylene glycol methacrylate Me ether and polypropylene glycol 333784-44-4 z-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with 5-u-perfluoro-C10-16-aikyl acrylate and viryl acetate 174125-96-3 Poly(oxy-1,2-ethanediyl), a-methyl-u-hydroxy-, 2-hydroxy-3-[(v-u-perfluoro-C6-20-aikyl)thio]propyl ethers 70983-59-4 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedioic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-meroswith tetradecaneloic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14 182700-77-2 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12.docosafluoro-11-(trifluoromethyl)- 65530-61-2 Thiols, C5-20, v-u-perfluoro 6833-92-6 Fatty acids, C7-13, perfluoro 91032-01-8 Dodecanovi fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96-7 Tetradecanovi fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Cirduccanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-docosafluoro-13- 68025-62-7 <td>mercaptoethoxylcarbonylaminojethyl methacrylate, v-u-perfluoro-C8-16-aityl acrylate and stearyl methacrylate, v-u- perfluoro-C8-16-alkyl acrylate, polyethylene glycol methacrylate Me ether and polypropylene glycol momenhacrylate 333784-44 2-Propencia acid, 2-methyl, 2-(dimethylamino)ethyl ester, polymers with 5-u-perfluoro-C10-16-alkyl acrylate and vinyl acetate 174125-96 Poly(oxy-1,2-ethanediyl), a-methyl-u-hydroxy-, 2-hydroxy-3-{(y-u-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-59- Siloxanes and Silicones, d-M6, hydroxy-terminated, polymers with feradecanedioic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-tricosafluoro-1-tridecanel-terminated 182700-77 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,40cosafluoro-11-(trifluoromethyle), a-fluoro-u-12-{(horposphonoxy)ethyl} 65330-61 Poly(diffuoromethyle), 1-generation acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,40cosafluoro-11-(trifluoromethyl) 16486-86- Tetradecanolic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,40cosafluoro-11-(trifluoromethyl) 16486-86- Tetradecanolic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,40cosafluoro-13- (trifluoromethyl) 18024-09- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,40cosafluoro-13- (trifluoromethyl) 18024-09- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,40cosafluoro-13- (trifluoromethyl) 18024-09- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,40cosa</td> <td>2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymers with maleic anhydride, 2-[[(2-</td> <td>000704.40.0</td>	mercaptoethoxylcarbonylaminojethyl methacrylate, v-u-perfluoro-C8-16-aityl acrylate and stearyl methacrylate, v-u- perfluoro-C8-16-alkyl acrylate, polyethylene glycol methacrylate Me ether and polypropylene glycol momenhacrylate 333784-44 2-Propencia acid, 2-methyl, 2-(dimethylamino)ethyl ester, polymers with 5-u-perfluoro-C10-16-alkyl acrylate and vinyl acetate 174125-96 Poly(oxy-1,2-ethanediyl), a-methyl-u-hydroxy-, 2-hydroxy-3-{(y-u-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-59- Siloxanes and Silicones, d-M6, hydroxy-terminated, polymers with feradecanedioic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-tricosafluoro-1-tridecanel-terminated 182700-77 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,40cosafluoro-11-(trifluoromethyle), a-fluoro-u-12-{(horposphonoxy)ethyl} 65330-61 Poly(diffuoromethyle), 1-generation acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,40cosafluoro-11-(trifluoromethyl) 16486-86- Tetradecanolic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,40cosafluoro-11-(trifluoromethyl) 16486-86- Tetradecanolic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,40cosafluoro-13- (trifluoromethyl) 18024-09- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,40cosafluoro-13- (trifluoromethyl) 18024-09- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,40cosafluoro-13- (trifluoromethyl) 18024-09- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,40cosa	2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymers with maleic anhydride, 2-[[(2-	000704.40.0
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers with 2,3-dhlydroxypropyl methacrylate, yω 333784-44-4 -perfluoro-Ce-16-alkyl acrylate, polyethylene glycol methacrylate Me ether and polypropylene glycol 333784-44-4 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with 5-ω-perfluoro-C10-16-alkyl acrylate and 174125-96-3 Poly(oxy-1,2-ethanediyl), a-methylu-hydroxy-, 2-hydroxy-3-[(γ-ω-perfluoro-C6-20-alkyl)(bio]propyl ethers 70983-59-4 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedioic acid, 182700-77-2 3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,11,11,12,12,13,13,13-tricosafluoro-1-terminated 182700-77-2 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- 678-39-7 Poly(difluoromethylene), a-fluorou-f2(phosphonoxy)ethyl]- 65530-61-2 Thiols, C8-20, -u-perfluoro 68333-92-6 Fatty acids, C7-13, perfluoro 91032-01-8 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96-7 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 (influoromethyl)- 68015-87-2 Weth ethanamine (1:1) 368-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13-	2-Propenoic acid, 2-methyl. 3-chloro-2-hydroxyncoyl ester, polymers with 2,3-dhydroxyncoyl nethacrylate, y perfluoro-26-16-aikyl acrylate, polyethylene glycol methacrylate Me ether and polypropylene glycol monomethacrylate 333764-44 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with 5-u-perfluoro-C10-16-aikyl acrylate and vinyl acetate 174125-9E Poly(oxy-1,2-ethanediyl), a-methyl-u-hydroxy-, 2-hydroxy-3-((y-u-perfluoro-C6-20-aikyl)thio]propyl ethers 70983-59- Siloxanes and Silicones, di-We, hydroxy-terminated, polymers with tetradecanedioic acid, 3.3.4.4,5.5.6,6.7.7.8,8.9,9.10,10,11.112,13.13.13-throsalluoro-1-tridecanol-terminated 182700-77 1-Decanol, 3.3.4.4,5.5,6,6.7.7.8,8.9,9.10,10,11-heptadecafluoro- 678-397 Poly(diffuoromethylene), a-fluoro-u2-(phosphonooxy)ethyl]- 665330-61- Thiols, C8-20, y-u-perfluoro 86333-62- Fatty acids, C7-13, perfluoro 91032-01- Dodecanoyl fluoride, 2.2.3.3.4.4,5.5,6,6.7.7,8,8.9,9.10,10,11,12,12.12-docosafluoro-11-(trifluoromethyl)- 16489-86- Tetradecanoyl fluoride, 2.2.3.3.4,4,5.5,6,6,7.7,8,8,9,9.10,10,11,11,2,12,12-docosafluoro-11-(trifluoromethyl)- 16489-86- Dodecanoic acid, 2,2.3.3.4,4,5.5,6,6,7.7,8,8,9,9.10,10,11,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. 68016-87- Undecanoic acid, 2,2.3.3.4,4,5,5,6,6,7,7,8,8,9,9.10,10,11,11,12,12,12-4docosafluoro-13- 68025-62- Undecanoic acid, 2,2.3.3,4,4,5,5	mercaptoethoxy)carbonyl]amino]ethyl methacrylate, γ-ω-perfluoro-C8-16-alkyl acrylate and stearyl methacrylate	333784-46-6
2-Propencic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with δ-ω-perfluoro-C10-16-alkyl acrylate and vinyl acetate 174125-96-3 Poly(oxy-1,2-ethanediyl), α-methyl-ω-hydroxy-, 2-hydroxy-3-{(γ-ω-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-59-4 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedioic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-tricosafluoro-1-tridecanol-terminated 182700-77-2 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- 678-39-7 Poly(difluoromethylene), α-fluoro-ω-(2-(phosphonooxy)ethyl]- 65530-61-2 Thiols, C6-20, γ-ω-perfluoro, telomers with acrylamide 70969-47-0 Fatty acids, C7-13, perfluoro 68333-92-6 Fatty acids, C7-13, perfluoro 91032-01-8 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96-7 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68015-87-2 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-hexacosafluoro-13- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,	2-Propencio acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with δ-ω-perfluoro-C10-16-alkyl acrytate and vinyl acetate 174125-96 Poly(oxy-1,2-ethanediyl), α-methyl-ω-hydroxy-, 2-hydroxy-3-{(y-ω-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-59- Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedioic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-tricosafluoro-1-tridecanol-terminated 182700-77 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heptadecafluoro- 678-39-7 Poly(difluoromethylene), a-fluoro-ω-{2-(phosphonooxy)ethyl}- 65530-61- Thoibs, C8-20, y-w-perfluoro, telomers with acrylamide 70960-47- Fatty acids, C7-13, perfluoro 68333-82- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16440-96- Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09- (influoromethyl)- 168015-87- 18024-09- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,0,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09- (influoromethyl)- 168015-87- 18024-09- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,0,0,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09- (influoromethyl)- compd 18026-82-	2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers with 2,3-dihydroxypropyl methacrylate, γ-ω -perfluoro-C8-16-alkyl acrylate, polyethylene glycol methacrylate Me ether and polypropylene glycol monomethacrylate	333784-44-4
Poly(oxy-1,2-ethanediyl), α-methyl-ω-hydroxy-,2-hydroxy-3-[(γ-ω-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-59-4 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedioic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-tricosafluoro-1-tridecanol-terminated 182700-77-2 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- 678-39-7 Poly(diffuoromethylene), c-fluoro-u-l2-(phosphonooxy)ethyl]- 65530-61-2 Thiols, C8-20, γ-ω-perfluoro, telomers with acrylamide 70969-47-0 Fatty acids, C7-13, perfluoro 68333-92-6 Fatty acids, C7-19, perfluoro 91032-01-8 Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 15811-52-6 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96-7 Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,docosafluoro-11-(trifluoromethyl)- 18024-09-4 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 With ethanamine (1:1) Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Dodecano	Poly(oxy-1,2-ethanediy), a-methyl-u-hydroxy-, 2-hydroxy-3-[(y-u-perfluoro-C6-20-alkyl)thio]propyl ethers 70983-59 Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedioic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,13-tricosafluoro-1-tridecanol-terminated 182700-77 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,13-tricosafluoro-1-tridecanol-terminated 182700-77 Poly(diffuoromethylene), a-fluoro-u-[2-(phosphonooxy)ethyl]- 65530-61: Thiols, C6-20, y-u-perfluoro, telomers with acrylamide 70989-47. Fatty acids, C7-13, perfluoro 91032-01: Dodecanol: acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96: Tetradecanol: acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16480-96: Tetradecanol: acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 68015-87: Tetradecanol: acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12,13,14,14,14-hexacosafluoro-13- 68025-62: (influoromethyl)- 68025-62: (influoromethyl)- 68025-62: Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,14,14,14-hexacosafluoro-13- (influoromethyl)- 68025-62: Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,14,14,15,15,15- 72968-33- <td>2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with δ-ω-perfluoro-C10-16-alkyl acrylate and vinyl acetate</td> <td>174125-96-3</td>	2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with δ-ω-perfluoro-C10-16-alkyl acrylate and vinyl acetate	174125-96-3
Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with terradecanedioic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,2,12,13,13,13-tricosafluoro-1-tridecanol-terminated 182700-77-2 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- 678-39-7 Poly(diffluoromethylene), a-fluoro-w-[2-(phosphonoxy)ethyl]- 65530-61-2 Thiols, C&-20, v-w-perfluoro, telomers with acrytamide 70969-47-0 Fatty acids, C7-13, perfluoro 68333-92-6 Fatty acids, C7-19, perfluoro 91032-01-8 Dodecanoir fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 15811-52-6 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 (trifluoromethyl)- 16486-96-7 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 (trifluoromethyl)- 68015-87-2 Tetradecanoly fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 (trifluoromethyl)- 68025-62-7 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,14,14-hexacosafluoro-13- 68025-62-7 (trifluoromethyl)- 0 3668-63-7 Decanoic acid, 2,2,3	Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedioic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,11,11,2,12,13,13,13-tricosalluoro-1-tridecanol-terminated 182700-77 Poly(difluoromethylene), a-fluoro-u-[2-(phosphonoxy)ethyl]- 65530-61- Thiols, C8-20, y-u-perfluoro, telomers with acrylamide 70989-47- Fatty acids, C7-13, perfluoro 91032-01- Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(triffuoromethyl)- 16486-96- Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(triffuoromethyl)- 16486-96- Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(triffuoromethyl)- 16486-96- Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 18024-09- (trifluoromethyl)- 0642canoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18026-62- (trifluoromethyl)- 0642canoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,14,14,14-hexacosafluoro-13- 68025-62- (trifluoromethyl)- 0cecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62- (trifluoromethyl)- 0cecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14,14-hexacosafluoro-13- 68025-62-	Poly(oxy-1,2-ethanediyl), α-methyl-ω-hydroxy-, 2-hydroxy-3-[(γ-ω-perfluoro-C6-20-alkyl)thio]propyl ethers	70983-59-4
1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- 678-39-7 Poly(diffuoromethylene), a-fluoro-w-[2-(phosphonooxy)ethyl]- 65530-61-2 Thiols, C8-20, v-w-perfluoro, telomers with acrylamide 70969-47-0 Fatty acids, C7-13, perfluoro 68333-92-6 Fatty acids, C7-19, perfluoro 91032-01-8 Dodecanoir, acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 15811-52-6 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96-7 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,13,14,14,14-hexacosafluoro-13- 68015-87-2 Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-hexacosafluoro-13- 72968-38-3 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 72968-38-8 </td <td>1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- 678-39-7 Poly(diffuoromethylene), a-fluoro-u-[2(phosphonooxy)ethyl]- 65530-61. Thiols, C8-20, Y-u-perfluoro, telomers with acrylamide 70969-47. Fatty acids, C7-13, perfluoro 68333-92. Fatty acids, C7-19, perfluoro 91032-01. Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16846-96. Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09. Odecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09. Odecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09. Odecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09. Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09. Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14,14,14,14,14,14,14,14,14,14,14,</td> <td>Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedioic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-tricosafluoro-1-tridecanol-terminated</td> <td>182700-77-2</td>	1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- 678-39-7 Poly(diffuoromethylene), a-fluoro-u-[2(phosphonooxy)ethyl]- 65530-61. Thiols, C8-20, Y-u-perfluoro, telomers with acrylamide 70969-47. Fatty acids, C7-13, perfluoro 68333-92. Fatty acids, C7-19, perfluoro 91032-01. Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16846-96. Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09. Odecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09. Odecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09. Odecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09. Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09. Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14,14,14,14,14,14,14,14,14,14,14,	Siloxanes and Silicones, di-Me, hydroxy-terminated, polymers with tetradecanedioic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-tricosafluoro-1-tridecanol-terminated	182700-77-2
Poly(difluoromethylene), α-fluoro-ω-[2-(phosphonooxy)ethyl]- 65530-61-2 Thiols, C8-20, γ-ω-perfluoro, telomers with acrylamide 70969-47-0 Fatty acids, C7-13, perfluoro 68333-92-6 Fatty acids, C7-19, perfluoro 91032-01-8 Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 15811-52-6 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96-7 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68015-87-2 Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-hexacosafluoro-13- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15- 93062-53-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,13,14,14,15,15,15- 93776-16-	Poly(difluoromethylene), α-fluoro-ω-[2-(phosphonooxy)ethyl]- 65530-61- Thiols, C8-20, v-ω-perfluoro, telomers with acrylamide 70969-47- Fatty acids, C7-13, perfluoro 68333-92- Fatty acids, C7-13, perfluoro 91032-01- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16846-96- Tetra decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96- Tetra decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14,14,14- (trifluoromethyl)- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,12,13,13,14,11,11,12,1	1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	678-39-7
Thiols, C8-20, y-w-perfluoro, telomers with acrylamide 70969-47-0 Fatty acids, C7-13, perfluoro 68333-92-6 Fatty acids, C7-19, perfluoro 91032-01-8 Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 15811-52-6 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68015-87-2 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,17:circosafluoro-, ammonium salt (1:1) 3658-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38-8 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93062-53-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2-	Thiols, C8-20, γ-ω-perfluoro, telomers with acrylamide 70969-47- Fatty acids, C7-13, perfluoro 68333-92- Fatty acids, C7-13, perfluoro 91032-01- Dodecanoyl fluoride, 2.2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16846-96- Tetradecanic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 18024-09- (trifluoromethyl)- 06decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. 68015-87- Dedecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)- 68025-62- Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)- 3668-63-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 72968-38- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 9376-16- 1-Pentadecanaminum 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 9376-16- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16- 1-Pentadecanaminum, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2-	Poly(difluoromethylene), α-fluoro-ω-[2-(phosphonooxy)ethyl]-	65530-61-2
Fatty acids, C7-13, perfluoro 68333-92-6 Fatty acids, C7-19, perfluoro 91032-01-8 Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 15811-52-6 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96-7 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68015-87-2 with ethanamine (1:1) 68025-62-7 Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Urifluoromethyl)- 0edecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,14,14,14,14-hexacosafluoro-13- 68025-62-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,13,14,14,14,14-hexacosafluoro-13- 68025-62-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,	Fatty acids, C7-13, perfluoro 68333-92- Fatty acids, C7-19, perfluoro 91032-01- Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 15811-52- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96- Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 18024-09- (trifluoromethyl)- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68015-87- (trifluoromethyl)- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68025-62- (trifluoromethyl)- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62- (trifluoromethyl)- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 68025-62- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 72968-38- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 7106-71- Phentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16- 1-Prentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12	Thiols, C8-20, γ-ω-perfluoro, telomers with acrylamide	70969-47-0
Fatty acids, C7-19, perfluoro 91032-01-8 Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 15811-52-6 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96-7 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 (trifluoromethyl)- 68015-87-2 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68015-87-2 with ethanamine (1:1) 68015-87-2 Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Urifuoromethyl)- 0edecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3658-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38-8 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53-4 93062-53-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,0,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16-0	Fatty acids, C7-19, perfluoro 91032-01- Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 15811-52- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96- Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09- (trifluoromethyl)- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68015-87- with ethanamine (1:1) 68015-87- 68025-62- 68025-62- (trifluoromethyl)- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3658-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38- Undecanoic acid, 2,2,3,3,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16- 1Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs, aluminum salts 93062-53- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16- 1-Protadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-17-	Fatty acids, C7-13, perfluoro	68333-92-6
Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 15811-52-6 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96-7 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 (trifluoromethyl)- 68015-87-2 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68015-87-2 with ethanamine (1:1) 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3658-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38-8 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16-0	Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 15811-52- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96- Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,13,14,14,14-hexacosafluoro-13- 18024-09- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. 68015-87- With ethnamine (1:1) 68025-62- Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3658-63- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 193776-16- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-tetracosafluoro-2- 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2- 94159-76- 2-Pentadecanamin	Fatty acids, C7-19, perfluoro	91032-01-8
Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)- 16486-96-7 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- 18024-09-4 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. 68015-87-2 with ethanamine (1:1) 68025-62-7 Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68025-62-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3658-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38-8 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16-0 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16-0 1-Tridecanaminium, 4,4,5,5,6	Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,2docosafluoro-11-(trifluoromethyl)- 16486-96 Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 18024-09 Obdecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,12,docosafluoro-11-(trifluoromethyl)-, compd. 68015-87- With ethanamine (1:1) 68015-87- Tetradecanoy fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68025-62- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68025-62- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12,13,14,14,14-hexacosafluoro-13- 68025-62- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,14,14,14-hexacosafluoro-13- 68025-62- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,14,14,14-hexacosafluoro-13- 68025-62- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,14,14,15,15,15- 93062-63- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15- 93062-53- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15- 93076-17- Phydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93062-53- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9	Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-	15811-52-6
Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)- 18024-09-4 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. with ethanamine (1:1) 68015-87-2 Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-octadecafluoro-9-(trifluoromethyl)-, ammonium salt (1:1) 3658-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38-8 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,14,15,15,15-pentacosafluoro-2- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-16-0 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,5,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8	Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- (triffuoromethyl)- 18024-09- Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,docosafluoro-11-(triffuoromethyl)-, compd. with ethanamine (1:1) 68015-87- Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- (triffuoromethyl)- 68025-62- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- (triffuoromethyl)- 3658-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 307-71-1 Phontadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2-hydroxy-N,N-bis(2- hydroxyethyl)-N-methyl-, iodide (1:1) 93776-16-1 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-pentacosafluoro-2-hydroxy-N,N-bis(2- hydroxyethyl)-N-methyl-14-(triffluoromethyl)-, iodide (1:1) 94159-76	Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-	16486-96-7
Londecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12,docosafluoro-11-(trifluoromethyl)-, compd. 68015-87-2 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)- 3658-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38-8 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,14,15,15,15-pentacosafluoro-2- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-16-0 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy- N,N-bis(2-hydroxyethyl)-N-methyl-1-(trifluoromethyl)-, iodide (1:1) 93776-17-1 2-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy- N,N-bis(Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. 68015-87- Tetradecanoy fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68025-62- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,14,14,14-hexacosafluoro-13- 68025-62- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,0-octadecafluoro-9-(trifluoromethyl)-, ammonium salt (1:1) 3658-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-17- 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2- 94159-76-1 Nybis(2-hydroxyethyl)-N-methyl-i, oidide (1:1) 93776-17- 1-Pentadecananinium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2- 94159-76-1 2-Pentadec	Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)-	18024-09-4
Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)- 68025-62-7 Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-octadecafluoro-9-(trifluoromethyl)-, ammonium salt (1:1) 3658-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38-8 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-16-0 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-tetracosafluoro-2-hydroxy- N,N-bis(2-hydroxyethyl)-N-methyl-iodide (1:1) 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy- N,N-bis(2-hydroxyethyl)-N-methyl-iodide (1:1) 94159-76-9 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 04	Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)- 68025-62- Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-octadecafluoro-9-(trifluoromethyl)-, ammonium salt (1:1) 3658-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,0,0,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-i odide (1:1) 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,0,0,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy- 94159-76-4 hydroxyethyl)-N-methyl-i -didifulfouromethyl)-, iodide (1:1) 94159-76-4 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,0,0,11,11,12,12,13,13,14,15,15,15- 94159-76-4 y-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,0,0,11,11,12,12,13,13,14,15,15,15- 94159-76-4	Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. with ethanamine (1:1)	68015-87-2
Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-octadecafluoro-9-(trifluoromethyl)-, ammonium salt (1:1) 3658-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38-8 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16-0 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2- 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 94159-76-9 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-	Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-octadecafluoro-9-(trifluoromethyl)-, ammonium salt (1:1) 3658-63-7 Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,14,15,15,15-pentacosafluoro-2- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- hydroxyethyl)-N-methyl-, iodide (1:1) 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-1, iodide (1:1) 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 93776-17- 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13- 94159-79-: 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13- 94159-80- 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11	Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafluoro-13- (trifluoromethyl)-	68025-62-7
Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38-8 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16-0 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-tetracosafluoro-2- 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2- 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 94159-76-9 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 04450, 70, 2	Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-tricosafluoro-, ammonium salt (1:1) 3793-74-6 Fatty acids, C7-13, perfluoro, ammonium salts 72968-38- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17- 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17- 1-Pentadecananinium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,14,15,15,15-pentacosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-i, iodide (1:1) 94159-76-1 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 94,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13,13,13,13,14,14,15,15,15- 94159-80-1 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13,14,14,15,15,15- 94159-82-	Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-octadecafluoro-9-(trifluoromethyl)-, ammonium salt (1:1)	3658-63-7
Fatty acids, C7-13, perfluoro, ammonium salts 72968-38-8 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16-0 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17-1 2-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 94159-76-9 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 04450,70,2	Fatty acids, C7-13, perfluoro, ammonium salts 72968-38- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17- 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 93776-17- hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 93776-17- hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 94159-76-4 N,N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 94159-79-2 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13- 94159-80-4 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- 94159-82- 2-Tridecanol, 1-[[3-(dimethylamino	Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-tricosafluoro-, ammonium salt (1:1)	3793-74-6
Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16-0 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16-0 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-2-hydroxy-N,N-bis(2- 93776-17-1 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 94159-76-9 2-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 94159-76-9 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 04450,70,2	Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1) 307-71-1 Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 94159-76 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15- tetracosafluoro- 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15- tetracosafluoro-14-(trifluoromethyl)- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15- tetracosafluoro-14-(trifluoromethyl)- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,	Fatty acids, C7-13, perfluoro, ammonium salts	72968-38-8
Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53-4 Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16-0 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17-1 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17-1 2-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 94159-76-9 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 04450,70,2	Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts 93062-53- Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-16- 1-Fridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-1-4(trifluoromethyl)-, iodide (1:1) 93776-17- 1-Pentadecanoninium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 93776-17- 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro- 94159-79-2 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15- 94159-80-2 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15- 94159-80-2 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- 94159-82-2 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]	Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt (1:1)	307-71-1
Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16-0 hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-2-hydroxy-N,N-bis(2- 93776-17-1 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 94159-76-9 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 04450,70,2	Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro- 1765-48-6 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- 93776-16- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 93776-17- hydroxyethyl)-N-methyl-, iodide (1:1) 94159-76-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2- 93776-17- N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 94159-76-1 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro- 94159-79-2 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13- 94159-80-4 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- 94159-80-4 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- 94159-80-4 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- 94159-80-4 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14	Phosphinic acid, bis(perfluoro-C6-12-alkyl) derivs., aluminum salts	93062-53-4
1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2- hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-16-0 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-2-hydroxy-N,N-bis(2- hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy- N,N-bis(2-hydroxyethyl)-N-methyl-i4-(trifluoromethyl)-, iodide (1:1) 94159-76-9 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 04450,70,2	1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-2-hydroxy-N,N-bis(2-hydroxy-thyl)-N-methyl-, iodide (1:1) 93776-16- 1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 94159-76-1 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- tetracosafluoro- 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- tetracosafluoro- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- 94159-82- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- 94159-82- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- 94159-83-4 94159-83-4 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafluoro-12- (trifluoromethyl)- 94159-83-4 1-Propanaminium, N-(2-carboxyethyl)-N N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12) 94159-83-4 <	Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-	1765-48-6
1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17-1 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 94159-76-9 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 04450,70,2	1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, iodide (1:1) 93776-17- 1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 94159-76-1 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,2,12,13,13,14,14,15,15,15-pentacosafluoro- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- heneicosafluoro- 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- tetracosafluoro- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- tetracosafluoro- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- tetracosafluoro- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- 94159-82- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- 94159-83- 1-Propanaminium, N-(2-carboxyethyl)-N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,13,14,15,15,15- 1-Propanaminium, N-(2-carboxyethyl)-N-dimethyl-3-[(4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,13,13,13,13,13,13,13,13,13,13,13,13,	1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15,15-pentacosafluoro-2- hvdroxv-N.N-bis(2-hvdroxvethyl)-N-methyl-, iodide (1:1)	93776-16-0
1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy- N,N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 94159-76-9 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 04450,70,0	1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy- N,N-bis(2-hydroxyethyl)-N-methyl-14-(trifluoromethyl)-, iodide (1:1) 94159-76- 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13,14,15,15,15- heneicosafluoro- 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- tetracosafluoro-14-(trifluoromethyl)- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- tetracosafluoro-14-(trifluoromethyl)- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,14,15,15,15- 94159-82- (trifluoromethyl)- 1-Propanaminium, N-(2-carboxyethyl)-N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13,14,12,12,13,13,14,12,12,13,13,14,15,15,15- 1-Propanaminium, N-(2-carboxyethyl)-N, N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,13,14,12,12,13,13,14,15,15,15- 1-Propanaminium, N-(2-carboxyethyl)-N, N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,13,14,12,12,13,13,14,15,15,15- 1-Propanaminium, N-(2-carboxyethyl)-N, N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,13,14,15,15,15- 1-Propanaminium, N-(2-carboxyethyl)-N, N-dimethyl-3-[(4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13,14,15,15,15- 1-Propanaminium, N-(2-carboxyethyl)-N, N-dimethyl-3-[(4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,15,15,15- 1-Propanaminium, N-(2-carboxyethyl)-N, N-dimethyl-3-[(4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,15,15,15- 11,15,15,15,15,15,15,15,15,15,15,15,15,1	1-Tridecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-2-hydroxy-N,N-bis(2- bydroxyethyl)-N-methyl-iodide (1:1)	93776-17-1
2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-	2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro- 94159-79- 94159-79- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13- heneicosafluoro- 94159-80- 94159-80- 94159-80- 94159-80- 94159-82- 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- tetracosafluoro-14-(trifluoromethyl)- 94159-83- 94159-83- 94159-83- 94159-83- (trifluoromethyl)- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13- eicosafluoro-12- (trifluoromethyl)- 94159-83- 94159-83- 94159-83- 94159-83- (trifluoromethyl)-	1-Pentadecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafluoro-2-hydroxy- N.N-bis(2-bydroxyethyl)-N-methyl-14-(trifluoromethyl) iodide (1:1)	94159-76-9
4.4.5.5.6.6.7.7.8.8.9.9.10.10.11.11.12.12.13.13.14.14.15.15.15.pentacosafluoro-	2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13,14 94159-80-4 2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- 94159-82-4 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- 94159-82-4 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- 94159-83-4 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13,14,15,15,15- 94159-83-4 1-Propanaminium, N-(2-carboxyethyl)-N, N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,13,13,14,15,15,15,15,15,15,15,15,15,15,15,15,15,	2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]- 4.4.5.5.6.6.7.7.8.8.9.9.10.10.11.11.12.12.13.13.14.14.15.15.15.pentacosafluoro-	94159-79-2
2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13- 94159-80-5	2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- tetracosafluoro-14-(trifluoromethyl)- 94159-82- 94159-82- (trifluoromethyl)- 2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafluoro-12- (trifluoromethyl)- 94159-83-6 94159-83-6 1-Propanaminium, N-(2-carboxyethyl)-N, N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,13,13,13,13,13,13,13,13,13,13,13,13,13,	2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-	94159-80-5
2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- tetracosafluoro-14-(trifluoromethyl)-	2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafluoro-12- (trifluoromethyl)- 1-Propanaminium, N-(2-carboxyethyl)-N N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,12,12,12,12,12,12,12,12,	2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15- tetracosafluoro-14-(trifluoromethyl)-	94159-82-7
2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafluoro-12- (trifluoromethyl)-	1-Propanaminium_N-(2-carboxyethyl)-N.N-dimethyl-3-I(4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11 12 12	2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafluoro-12- (trifluoromethyl)-	94159-83-8
1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,14,15,15,15-pentacosafluoro-2-hydroxypentadecyl)aminolinner salt 93776-12-6	13,13,14,14,15,15,15-pentacosafluoro-2-hydroxypentadecyl)amino]-, inner salt	1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,14,15,15,15,15-pentacosafluoro-2-hydroxypentadecyl)amino]-, inner salt	93776-12-6

No.49 Long-chain Perfluorocarboxylic acids (PFCAs), its salts and related substances (Continued)	CAS RN
1-Propanaminium, N-(2-carboxyethyl)-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafluoro-2-hydroxytridecyl)amino]-N,N-dimethyl-, inner salt	93776-13-7
1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12, 13,13,14,15,15,15-tetracosafluoro-2-hydroxy-14-(trifluoromethyl)pentadecyl]amino]-, inner salt	93776-15-9
Amides, C7-19, α-ω-perfluoro-N,N-bis(hydroxyethyl)	90622-99-4
Piperazinium, 1-(carboxymethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1- oxodecyl)-, inner salt	71356-38-2
2-Propenoic acid, perfluoro-C8-16-alkyl esters	85681-64-7
2H-Pyran, 2,2,3,3,4,4,5,5,6-nonafluorotetrahydro-6-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-nonadecafluorononyl)-	68155-54-4
2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with butyl 2-propenoate and 2,5-furandione, γ-ω- perfluoro-C8-14-alkyl esters, tert-Bu benzenecarboperoxoate-initiated	459415-06-6
2-Propen-1-ol, reaction products with 1,1,1,2,2-pentafluoro-2-iodoethane-tetrafluoroethylene telomer, dehydroiodinated, reaction products with epichlorohydrin and triethylenetetramine	464178-90-3
Alcohols, C16-20-branched, reaction products with 1,6-diisocyanatohexane homopolymer, α-fluoro-ω-(2- hydroxyethyl)poly(difluoromethylene) and stearyl alc.	1246542-93-7
2-Pentadecanol, 1,1 [′] -[oxybis[(1-methyl-2,1-ethanediyl)oxy]]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,13,13,14,14,15,15,15-pentacosafluoro-	93776-00-2
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, hexadecyl 2-propenoate, N- (hydroxymethyl)-2-propenamide, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate	115592-83-1
2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2-propenyl)carbamate and γ-ω-perfluoro-C18-14-alkyl acrylate	144031-01-6
2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with α -fluoro- ω -[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene)	65605-58-5
Ethanaminium, N,N-diethyl-N-methyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-, methyl sulfate (1:1), polymer with 2- ethylhexyl 2-methyl-2-propenoate, α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]poly(difluoromethylene), 2-hydroxyethyl 2-methyl-2-propenoate and N-(hydroxymethyl)-2-propenamide	65636-35-3
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and α - ω -perfluoro-C8-14-alkyl acrylate	125328-29-2
2-Propenoic acid, 2-methyl-, C10-16-alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and γ-ω-perfluoro-C8-14-alkyl acrylate	129783-45-5
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl ester	34395-24-9
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafluorohexadecyl 2-propenoate, octadecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafluorotetradecyl 2- propenoate	119973-85-2
2-Propenoic acid, C12-14-alkyl esters, polymers with Bu (1-oxo-2-propenyl)carbamate and δ-ω-perfluoro-C6-12- alkyl acrylate	178233-67-5
2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propen-1- yl)oxy]ethyl]poly(difluoromethylene) and N-(hydroxymethyl)-2-propenamide	65605-59-6
2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propen-1- yl)oxy]ethyl]poly(difluoromethylene), 2-hydroxyethyl 2-methyl-2-propenoate and N-(hydroxymethyl)-2- propenamide	65605-60-9
2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propen-1- yl)oxy]ethyl]poly(difluoromethylene), 2-hydroxyethyl 2-methyl-2-propenoate and N-(hydroxymethyl)-2- propenamide	68239-43-0
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with Bu acrylate, γ-ω-perfluoro-C8-14-alkyl acrylate and polyethylene glycol monomethacrylate, 2,2' -(1,2-diazenediyl)bis[2,4-dimethylpentanenitrile]- initiated	150135-57-2
2-Propenoic acid, 2-methyl-, hexadecyl ester, polymers with 2-hydroxyethyl methacrylate, γ-ω-perfluoro-C10-16- alkyl acrylate and stearyl methacrylate	203743-03-7
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymers with γ-ω-perfluoro-C10-16-alkyl acrylate and vinyl acetate, acetates	196316-34-4
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafluorohexadecyl 2-propenoate, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13, 14,14,14-pentacosafluorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoat	1094598-90-9
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymers with N-(1,1-dimethyl-3-oxobutyl)-2- propenamide, 2-ethylhexyl acrylate, γ-ω-perfluoro-C8-16-alkyl acrylate, stearyl acrylate and vinyl chloride, 2,2' - azobis[2-methylpropanimidamide] dihydrochloride-initiated	325966-78-7

No.49 Long-chain Perfluorocarboxylic acids (PFCAs), its salts and related substances (Continued)	CAS RN
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, α-(2-methyl-1-oxo-2-propenyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl), 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafluorohexadecyl 2-propenoate, octadecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14,14-pentacosafluorotetradecyl 2-propenoate	119973-84-1
2-Propenoic acid, 2-methyl-, 2-aziridinyl ester, polymer with α -fluoro- ω -[2-[(1-oxo-2-	220713-37-1
2-Propenenitrile, polymer with α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]poly (difluoromethylene), α-(2-methyl-1-oxo-2-propenyl)-ω-methoxypoly(oxy-1,2-ethanediyl) and α-(2-methyl-1-oxo-2- propenyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)	374928-93-5
2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with α -fluoro- ω -[2-[(2-methyl-1-oxo-2- propenyl)oxylethyl]poly(difluoromethylene)	97136-02-2
2-Propenoic acid, 2-methyl-, 3-chloro-2-hydroxypropyl ester, polymer with α-fluoro-ω-[2-[(2-methyl-1-oxo-2- propen-1-yl)oxylethyl]poly(difluoromethylene)	101896-32-6
2-Propenoic acid, 2-methyl-, 2-aziridinyl ester, polymer with α-fluoro-ω-[[(2-methyl-1-oxo-2- propenyl)oxy]methyl]poly(difluoromethylene) and octadecyl 2-methyl-2-propenoate	220713-74-6
2-Propenoic acid, 2-methyl-, 2-aziridinyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate and α- fluoro-ω-[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]poly(difluoromethylene)	220713-85-9
2-Butenedioic acid (2Z)-, dioctyl ester, polymer with chloroethene and α-fluoro-ω-[2-[(1-oxo-2- propenyl)oxy]ethyl]poly(difluoromethylene)	374928-92-4
2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with butyl 2-propenoate and 2,5-furandione, γ-ω- perfluoro-C8-14-alkyl esters, tert-Bu benzenecarboperoxoate-initiated	459415-06-6
2-Propenoic acid, polymer with butyl 2-propenoate and 2,5-furandione, γ-ω-perfluoro-C8-14-alkyl esters, potassium salts, tert-Bu benzenecarboperoxoate-initiated	524729-93-9
2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with α-fluoro-ω-[2-[(2-methyl-1-oxo-2- propenyl)oxy]ethyl]poly(difluoromethylene), acetate (salt)	500701-62-2
Ethene, tetrafluoro-, homopolymer, α-fluoro-ω-(2-hydroxyethyl)-, citrate, reaction products with 1,6- diisocyanatohexane	68891-05-4
Alcohols, C8-14, γ-ω-perfluoro, polymers with α-fluoro-ω-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] poly(difluoromethylene), methanol, stearyl acrylate, stearyl methacrylate, 2,4-TDI and vinyl chloride	376364-33-9
Hexane, 1,6-diisocyanato-, homopolymer, γ-ω-perfluoro-C6-20-alcblocked	135228-60-3
1,3-Propanediol, 2,2-bis(bromomethyl)-, reaction products with ethanethiol-tetrafluoroethylene telomer, polymers with 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane, 2-heptyl-3,4-bis(9-isocyanatononyl)-1-pentylcyclohexane and 2,2' -(methylimino)bis[ethanol]	144468-32-6
Alcohols, C8-14, γ - ω -perfluoro, reaction products with epichlorohydrin, polyethylene glycol mono-Me ether and N,N' ,2-tris(6-isocyanatohexyl)imidodicarbonic diamide	118102-37-7
2-Oxepanone, homopolymer, decyl perfluoro-C8-14-alkyl esters, reaction products with 1H-imidazole-1- propanamine, polyethylene-polypropylene glycol and TDI homopolymer	332076-28-5
2-Oxepanone, homopolymer, decyl perfluoro-C8-14-alkyl esters, reaction products with 1H-imidazole-1- propanamine and TDI homopolymer	332076-33-2
2-Oxepanone, homopolymer, decyl perfluoro-C8-14-alkyl esters, reaction products with 1H-imidazole-1- propanamine, polyethylene glycol and TDI homopolymer	332076-34-3
Fatty acids, C18-unsatd., dimers, diisocyanates, polymers with 2,3-bis(γ-ω-perfluoro-C4-18-alkyl)-1,4-butanediol, 1,6-diisocyanato-2,2,4(or 2,4,4)-trimethylhexane and 2,2′ -(methylimino)bis[ethanol]	68990-40-9
Alcohols, C8-14, γ - ω -perfluoro, reaction products with epichlorohydrin, tetrahydrofuran homopolymer and N,N' ,2-tris(6-isocyanatohexyl)imidodicarbonic diamide	118102-38-8
Alcohols, C8-14, γ-ω-perfluoro, polymers with 1,6-diisocyanatohexane, ethylene glycol, glycidol and 2,4-TDI	253873-70-0
Imidodicarbonic diamide, N,N' ,2-tris(6-isocyanatohexyl)-, reaction products with ethylene glycol, α -fluoro- ω -[2-[(1-oxo-2-propenyl)oxy]ethyl]poly(difluoromethylene), glycidol and 2,4-TDI	329201-80-1
Imidodicarbonic diamide, N,N' ,2-tris(6-isocyanatohexyl)-, reaction products with 3-chloro-1,2-propanediol, ethylene, iodoethane and tetrafluoroethylene	254889-72-0
Methanol, reaction products with 1,6-diisocyanatohexane, ethylene, ethylene oxide, iodoethane and tetrafluoroethylene	254889-79-7
Hexane, 1,6-diisocyanato-, homopolymer, α-fluoro-ω-(hydroxyethyl)poly(difluoromethylene)- and Me Et ketone oxime- and polyethylene glycol mono-Me ether-blocked	428842-38-0
Fatty acids, linseed-oil, γ-ω-perfluoro-C8-14-alkyl esters	178535-23-4
Hexane, 1,6-diisocyanato-, homopolymer, reaction products with α-fluoro-ω-(2- hydroxyethyl)poly(difluoromethylene)	126927-97-7
Thiols, C8-20, γ-ω-perfluoro, telomers with acrylamide	70969-47-0
Thiols, C4-20, γ-ω-perfluoro, reaction products with methylated formaldehyde-1,3,5-triazine-2,4,6-triamine polymer	113089-67-1
Alcohols, C8-14, γ-ω-perfluoro, reaction products with epichlorohydrin and propylene oxide, trimethylamine- quaternized	185630-70-0
Poly(difluoromethylene), α-fluoro-ω-(2-hydroxyethyl)-, ester with 2,15-bis(carboxymethyl)-4,13-dioxo-3,14-dioxa- 5,12-diazahexadecane-1,2,15,16-tetracarboxylic acid (6:1)	65530-58-7
Other Long-chain Perfluorocarboxylic acids (PFCAs), its salts and related substances	e.g.

Refer to P.12 : It is possible to deliver it until the effective date.

No.50 Perfluorohexanoic acid (PFHxA) and its salts and related substances	CAS RN
Ammonium undecafluorohexanoate	21615-47-4
Sodium undecafluorohexanoate	2923-26-4
Other Perfluorohexanoic acid (PFHxA) and its salts and related substances	e.g.

Refer to P.13 : It is possible to deliver it until the freeze date.

No.51 -	CAS RN
Decabromodiphenylethane (DBDPE)	84852-53-9

Refer to P.13 : It is possible to deliver it until the freeze date.

No.52 4,4'-isopropylidenediphenol (Bisphenol A) and a substance group containing Tetrabromo-bisphenol A (TBBPA)	CAS RN
4,4'-isopropylidenediphenol (Bisphenol A, BPA)	80-05-7
4,4'-(1-methylpropylidene)bisphenol (Bisphenol B)	77-40-7
4,4'-Sulfonyldiphenol (Bisphenol S)	80-09-1
4,4'-Dihydroxydiphenylmethane (Bisphenol F)	620-92-8
4,4'-(Hexafluoroisopropylidene)diphenol (Bisphenol AF)	1478-61-1
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBPA)	79-94-7
2,2'-[(1-methylethylidene)bis[(2,6-dibromo-4,1-phenylene)oxymethylene]]bisoxirane [TBBPA-bGE]	3072-84-2
1,1'-(isopropylidene)bis[3,5-dibromo-4-(2,3-dibromopropoxy)benzene] [TBBPA-bDiBPrE]	21850-44-2
1,1'-isopropylidenebis[4-(allyloxy)-3,5-dibromobenzene] [TBBPA-bAE]	25327-89-3
4,4'-(isopropylidene)bis[2,6-dibromoanisole] m [TBBPA-bME]	37853-61-5
1,1'-(isopropylidene)bis[3,5-dibromo-4-(2,3-dibromo-2-methylpropoxy)benzene]	97416-84-7
INTERSTAB FR 184	-
A mixture of: 2-ethyl-[2,6-dibromo-4-[1-[3,5-dibromo-4-(2-hydroxyethoxy)phenyl]-1- methylethyl]phenoxy]propenoate; 2,2'-diethyl-[4,4'-bis(2,6-dibromophenoxy)-1-methylethylidene] dipropenoate; 2,2'-[(1-methylethylidene)bis[[2,6-dibromo-4,1-phenylene)oxy]ethanol]]	-
2,2-bis(3,5-dibromo-4-(3-acryloyloxy-2-hydroxypropoxy)phenyl)propane	-
BB 331	1
2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	40039-93-8
2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane and 2,4,6-tribromophenol	158725-44-1
Phenol, 4,4'-(1-methylethylidene)bis[2,6-dibromo-, polymer with 2-(chloromethyl)oxirane and 4,4'-(1- methylethylidene)bis[phenol], Ph ethers	1045809-53-7
2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether	1179964-22-7
Reaction mass of 1,1'-(isopropylidene)bis[3,5-dibromo-4-(2,3-dibromo-2-methylpropoxy)benzene] and 1,3- dibromo-2-(2,3-dibromo-2-methylpropoxy)-5-{2-[3,5-dibromo-4-(2,3,3-tribromo-2-methylpropoxy)phenyl]propan-2- yl}benzene	-

Refer to P.13 : It is possible to deliver it until the freeze date.

No.53 -	CAS RN
Di-n-hexyl Phthalate (DnHP)	84-75-3

Refer to P.13 : It is possible to deliver it until the effective date.

No.54	Octamethylcyclotetrasiloxane (D4), Decamethylcyclopentasiloxane (D5), Dodecamethylcyclohexasiloxane (D6)	CAS RN
Octam	ethylcyclotetrasiloxane (D4)	556-67-2
Decarr	nethylcyclopentasiloxane (D5)	541-02-6
Dodec	amethylcyclohexasiloxane (D6)	540-97-6

No.57	-	CAS RN
Hexach	nlorobenzene(HCB)	118-74-1

Refer to P.14			
No.58 Pentachlorophenol(PCP) and its salts and esters	CAS RN		
Hexadecyl(trimethyl)ammonium pentachlorophenolate	87-76-3		
2,3,4,5,6-Pentachlorophenol	87-86-5		
Sodium Pentachlorophenate	131-52-2		
Copper(II) bis(2,3,4,5,6-pentachlorophenolate)	2917-31-9		
Zinc bis(pentachlorophenolate)	2917-32-0		
Tributyl(pentachlorophenoxy)stannane	3644-38-0		
Pentachlorophenyl laurate	3772-94-9		
Methyl(pentachlorophenolato)mercury	5902-76-1		
Bis(pentachlorophenyl) carbonate	7497-08-7		
Potassium pentachlorophenolate	7778-73-6		
Pentachlorophenyl oleate	10443-46-6		
Pentachlorophenyl N(2)-[(benzyloxy)carbonyl]-L-glutaminate	13673-51-3		
Pentachlorophenyl N-[(benzyloxy)carbonyl]-L-isoleucinate	13673-53-5		
Pentachlorophenyl (R)-2-{[(benzyloxy)carbonyl]amino}-3-(benzylsulfanyl)propanoate	13673-54-6		
Pentachlorophenyl N-{[(4-methoxybenzyl)oxy]carbonyl}-L-serinate	23234-97-1		
Sodium pentachlorophenolate decahydrate	27735-63-3		
Sodium pentachlorophenolate monohydrate	27735-64-4		
Pentachlorophenyl (S)-5-oxopyrrolidine-2-carboxylate	28990-85-4		
Compound of 2,2',2"-nitrilotriethanol and pentachlorophenol (1:1)	32978-79-3		
Compound of abieta-8(14),9(11),12-trien-18-amine and pentachlorophenol	35109-57-0		
Pentachlorophenyl 2-hydroxybenzoate	36994-69-1		
Pentachlorophenyl (R)-5-oxopyrrolidine-2-carboxylate	50654-95-0		
Pentachlorophenyl N-[(benzyloxy)carbonyl]-L-tyrosinate	55593-07-2		
Calcium bis(pentachlorophenolate)	55868-72-9		
Pentachlorophenyl 5-oxopyrrolidine-2-carboxylate	67246-71-3		
Compounds of coco alkyl amines and pentachlorophenol (1:1)	90640-52-1		
Coco-alkyl(trimethyl)ammonium pentachlorophenolates	91080-93-2		
Pentachlorophenyl ester of fatty acids(C=8-12)	98219-40-0		
Pentachlorophenyl ester of fatty acids(C=16-18)	98219-41-1		

No.59	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc : Class I Specified Chemical Substances	CAS RN
Bis(tri-n-butyltin)oxide (TBTO)		56-35-9
Hexachlorobenzene		118-74-1
Aldrin		309-00-2
Dieldrin		60-57-1
		128-10-9
Endrin		72-20-8
		128-10-9
Chloro	phenothane (DDT)	50-29-3
Chloro	phenothane	57-74-9
		76-44-8
		5103-71-9
		5103-74-2
		5566-34-7
		6058-23-7
		12789-03-6
		27304-13-8
		56534-03-3
		56641-38-4
N,N -d	itolyl-p-phenylenediamine,	27417-40-9
N-tolyl-N -xylyl-p-phenylenediamine		28726-30-9
and N,N -dixylyl-p-phenylenediamine		70290-05-0
		620-91-7
		15017-02-4
		68953-84-4

No.59	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc : Class I Specified Chemical Substances (Continued)	CAS RN
2,4,6-	tri-tert-butylphenol	732-26-3
Тохар	hene	8001-35-2
Mirex		2385-85-5
Dicofo	bl	115-32-2
		10606-46-9
Hexad	chloro-1,3-butadiene (HCBD)	87-68-3
Penta	chlorobenzene	608-93-5
Hexad	chlorocyclohexane	-
α-	Hexachlorobutadiene	319-84-6
β-	Hexachlorobutadiene	319-85-7
γ-	Hexachlorobutadiene (Rinden)	58-89-9
Chlor	decone	143-50-0
Endos	sulfan	115-29-7
		959-98-8
		33213-65-9
Penta	chlorophenol(PCP) and its salts and esters	Refer to No.58
Metho	oxychlor	72-43-5
		30667-99-3
		76733-77-2
		255065-25-9
		255065-26-0
		59424-81-6
		1348358-72-4

Refer to P.14

No.60 Industrial Safety and Health Act (Articl 55) : Harmful Substances, etc., Prohibited for Manufacturing, etc.	CAS RN
Benzidine	92-87-5
4-Aminodiphenyl	92-67-1
4-Nitrodiphenyl	92-93-3
Bis(chloromethyl)eter	542-88-1
β-Naphthyamine: 2-Naphthylamine	91-59-8
Benzen and rubber gule which contains benzene	71-43-2
Yellow Phosphor match	12185-10-3

No.61 Poisonous and Deleterious Substances Control Act : Specified Poisonous Substances	CAS RN
Octamethyl pyrophosphoramide (Schradan)	152-16-9
Tetraalkyl lead	-
Tetramethyl lead	75-74-1
Tetraethyl lead	78-00-2
Ethyltrimethylplumbane	1762-26-1
Diethyldimethylplumbane	1762-27-2
Triethylmethylplumbane	1762-28-3
Parathion	56-38-2
Dimethylethyl mercaptoethyl triphosphate	8022-00-2
Phosphamidon	13171-21-6
Dimethylparanitrophenyl thiophosphate	298-00-0
Tetraethylpyrophosphate	107-49-3
Salts of fluoroacetic acid	144-49-0
Sodium fluoroacetate	62-74-8
Fluoroacetamide	640-19-7
Aluminium phosphide	20859-73-8

Major controlled substances, and examples of applicable laws and regulations

The laws and regulations cited herein are subject tochange, and it is essential to consult

(Table 7) Containing banned substances and and examples of applicable laws and regulations

No.	Substances/Substance group	Laws and regulations (examples)
1	Asbestos	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
		U.S. Toxic Substances Control Act : TSCA
		JAPAN. Industrial Safety and Health Act (Articl 55)
2	Specific azo compounds which form certain aromatic amines	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
3	Beryllium Oxide (BeO)	EU. WEEE Directive 2002/96/EC and EU Directive 1999/45/EC
		DIGITALEUROPE/CECED/EERA:European Industry Agreement
4	Cadmium and Cadmium compounds	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
		E U. RoHS Directive 2011/65/EU
		China. Law Measures for Restriction of the Use of Hazardous
		Substances in Electrical Appliances and Electronic Products
		Denmark. Statutory Order No. 1199.
5	Brominated flame retardants (BFR) (other than PBBs,PBDEs, or HBCDD)	U.S. JS709 (Definition of the low halogen)
6	Chlorinated flame retardants (CFR)	U.S. JS709 (Definition of the low halogen)
		E U. (EU) No.2019/1021(POPs Regulation)
7	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12 2 1 16 9 02 13 05 10]octadeca-7 15-diene (DechloranePlus)	Japan. Act on the Evaluation of Chemical Substances and
		Regulation of Their Manufacture, etc
8	Chromium VI compounds	E U. RoHS Directive 2011/65/EU.
		E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
		China. Law Measures for Restriction of the Use of Hazardous
		Substances in Electrical Appliances and Electronic Products
9	Cobalt dichloride	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
10	Diarsenic Trioxide, Diarsenic Pentoxide	E U. REACH Regulation (EC) No. 1907/2006 Annex XIV
11	Dibutyltin compounds (DBT)	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
12	Dioctyltin compounds (DOT)	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
13	Dimethyl fumarate (DMF)	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
14	Polycyclic aromatic hydrocarbons (PAH)	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
		E U. REACH Regulation (EC) No. 1907/2006 Articl 33 and 7.2
		Germany.Produktsicherheitsgesetz(ProdSG) SafeGuardS 136/19
15	Fluorinated greenhouse gases (PFC, SF ₆ , HFC)	E U. (EU) 2024/573
		United Nation. Montreal Protocol AnnexF
16	Formaldehyde	Germany. ChemVerbotsV
		Denmark. No.289, 22 June 1983
		USA. Toxic Substances Control Act (TSCA)
		Austria. BGB I 1990/194: Formaldehydverordnung,§2,12/2/1990
17	Hexabromocyclododecane (HBCDD) and all major	E U. (EU) No.2019/1021(POPs Regulation)
	diastereoisomers	Japan. Act on the Evaluation of Chemical Substances and
10	Lood and Lood compounds	Regulation of Their Manufacture, etc
10	Lead and Lead compounds	China Law Magauras for Destriction of the Line of Liszardous
		Substances in Electrical Appliances and Electronic Broducts
10	Moreury and Moreury compounds	
19		Chipa Law Magauraa far Dastriation of the Line of Llazordovic
		Substances in Electrical Appliances and Electronic Dreducts
20	Nickal and Nickal compounds	
20		C O. NEACH REgulation (EC) NO. 1907/2000 Allitex AVII

No.	Substances/Substance group	Laws and regulations (examples)
21	Ozone Depleting Substances	United Nation. Montreal Protocol
		E U. (EC) 2024/590
		U.S. Clean Air Act Amendments of 1990.
22	Perchlorates	U.S.California. Perchlorate Contamination Prevention Act of 2003
23	Perfluorooctane sulfonates (PFOS) and its salts and	E U. (EU) No.2019/1021(POPs Regulation)
	related substances	Japan. Act on the Evaluation of Chemical Substances and Regulation
24	Perfluorooctanoic acid (PEOA) and its branched isomers.	E U. (EU) No.2019/1021(POPs Regulation)
	its salts, and PFOA-related substances	Japan. Act on the Evaluation of Chemical Substances and Regulation
		of Their Manufacture, etc
25	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	Japan. Act on the Evaluation of Chemical Substances and Regulation
26	2-(2H-benzotriazol-2-vl)-4.6-ditertpentvlphenol (UV-328)	E U. (EU) No.2019/1021(POPs Regulation)
		Japan. Act on the Evaluation of Chemical Substances and
		Regulation of Their Manufacture, etc
27	Bis (2-ethylhexyl) phthalate (DEHP)	E U. RoHS Directive 2011/65/EU
28	Benzyl butyl phthalate (BBP)	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII Chipa Law Measures for Postriction of the Use of Hazardous
30	Disobutyl phthalate (DBP)	Substances in Electrical Appliances and Electronic Products
31	Di-isodecyl phthalate (DIDP)	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
32	Diisononyl phthalate (DINP)	U.S. CPSIA : Consumer Product Safety Improvement Act of 2008
33	Di-n-octyl phthalate (DNOP)	
34	Polybrominated Biphenyls (PBBs)	E U. (EU) No.2019/1021(POPs Regulation)
		E U. RoHS Directive 2011/65/EU
		China. Law Measures for Restriction of the Use of Hazardous
35	Polybrominated Diphenylethers (PBDEs)	F U. (FU) No.2019/1021(POPs Regulation)
00		E U. RoHS Directive 2011/65/EU
		China. Law Measures for Restriction of the Use of Hazardous
		Substances in Electrical Appliances and Electronic Products
		Japan. Act on the Evaluation of Chemical Substances and Regulation
26	Delyahlaringtad Binhanyla (PCPa) and apacific synatity too	of Their Manufacture, etc
30	Polychionnated Biphenyls (PCBs) and specific substitutes	U.S. 40CER761
		Japan. Act on the Evaluation of Chemical Substances and Regulation
		of Their Manufacture, etc
37	Polychlorinated Terphenyls (PCTs)	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
38	Polychlorinated Naphthalenes	E U. (EU) No.2019/1021(POPs Regulation)
		Japan. Act on the Evaluation of Chemical Substances and Regulation
39	Polyvinyl chloride (PVC), PVC Copolymers and its blends	U.S. JS709 (Definition of the low halogen)
40	Radioactive substances	E U. Directive 2013/59/Euratom
		Japan. Act on the Regulation of Nuclear Source Material, Nuclear
		Fuel Material and Reactors
41	Shortchain Chlorinated Paraffins (C10–C13)(SCCP)	E U. (EU) No.2019/1021(POPs Regulation)
		Japan. Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
42	Medium-chain Chlorinated Paraffins (C14–C17, and	United Nation. Stockholm Convention 'Persistent Organic Pollutants
	chlorination rate of 45wt% or more)(MCCP)	Review Committee (POPRC)
43	Specified organic tin compounds	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
	(trisubstituted stannanes(include TBT, TPT))	Japan. Act on the Evaluation of Chemical Substances and Regulation
ΔΛ	Chlorinated phosphate ester flame retardants	US Vermont State Law Act 85
	(TCEP,TCPP,TDCPP)	E U. REACH Regulation (EC) No. 1907/2006 Articl 33 and 7.2
45	Long-Chain Perfluoroalkyl Carboxylate and Perfluoroalkyl	USA. Toxic Substances Control Act (TSCA)
	Sulfonate Chemical Substances (LCPFACs)	
46	Phenol, isopropylated Phosphate (3:1) (PIP(3:1))	
47	Pentachlorothiophenol(PCTP)	
48	Perriuoronexane-1-sulphonic acid (PFHxS) and its salts	E U. (EU) N0.2019/1021 (POPS Regulation)
	anu relateu substances	of Their Manufacture, etc
		Singapore. Environmental Protection AND Management Act (EPMA)
49	Long-chain Perfluorocarboxylic acids (PFCAs), its salts	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
	and related substances	United Nation. Stockholm Convention 'Persistent Organic Pollutants
		Review Committee (POPRC)
50	Perfluorohexanoic acid (PFHxA) and its salts and	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII Candidate
Ļ	related substances	substance
51	Decabromodiphenylethane (DBDPE)	Canada. Prohibition of Certain Toxic Substances Regulations

No.	Substances / Substance group	Laws and regulations (examples)
52	4,4'-isopropylidenediphenol (Bisphenol A) and a	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII Candidate
	(TBBPA)	U.S. California. Safe Drinking Water and Toxic, Proposition 65
53	Di-n-hexyl Phthalate (DnHP)	E U. REACH Regulation (EC) No. 1907/2006 Articl 33 and 7.2
		U.S. California. Safe Drinking Water and Toxic, Proposition 65
54	Octamethylcyclotetrasiloxane (D4),	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
	Dodecamethylcyclopenasiloxane (D5),	
55	Per- and polyfluoroalkyl substances(PFAS)	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII Candidate
		substance
		USA. Toxic Substances Control Act (TSCA)
		U.S. Maine. State, Minnesota.State
56	IEC 62474 listed substances (others)	
57	Hexachioropenzene(HCB)	E U. (EU) No.2019/1021(POPs Regulation)
00 50	Act on the Evolution of Chemical Substances and	E 0. (E0) N0.2019/1021(POPS Regulation)
55	Regulation of Their Manufacture, etc.	of Their Manufacture, etc.
	: Class I Specified Chemical Substances	
60	Industrial Safety and Health Act (Articl 55) Harmful	Japan, Industrial Safety and Health Act (Articl 55)
	Substances, etc., Prohibited for Manufacturing, etc.	
61	Poisonous and Deleterious Substances Control Act :	Japan. Poisonous and Deleterious Substances Control Act
	Specified Poisonous Substances	
62	Arsenic and arsenic compounds	E U. REACH Regulation (EC) No. 1907/2006 Annex XVII
63	Halogen compound and Halogen resin	_
64	Mineral oil aromatic hydrocarbons (MOAH)	Reference regulation: French circular economy law "Anti-Waste and
		Circular Economy Law (AGEC law)" (L2020-105), Decree:
65	Saturated bydrocarbons(C16-35) (MOSH)	Reference regulation: French circular economy law "Anti-Waste and
00		Circular Economy Law (AGEC law)" (L2020-105), Decree:
		MOAH/MOSH regulation (D.543-213)
-	Additional requirements concerning battery	EU:(EU)2023/1542 (Batteries Regulation)
		China.Content limitation of mercury, cadmium and lead for zinc anode
		primary battery(GB24427-2021)
		United Nation. Minamata Convention on Mercury

4.2. Substances requiring communication of information

Chemichal substances for which it is necessary to determine whether or not they are contained in a product and in what amount. However, the restriction does not apply to intentional use. If the substance also falls under the category of prohibited substances, the name, scope and instructions regarding when delivery is prohibited contained in (Table 2) shall be followed, and information shall be communicated as appropriate.

The chemichal substances for which communication is required as per this document shall be those that are listed in the laws and industry standards found in (Table 8).

These substances correspond objects to be managed (latest version) in "chemSHERPA," which is a scheme facilitates sharing information on chemical substances in products developed and promoted under the initiative of the Ministry of Economy, Trade and Industry.

If any of the following conditions apply to the chemichal substance in question, information on it being contained shall be communicated as appropriate.

- $\boldsymbol{\cdot}$ A case with the intentional addition
- · Information that the substance is contained was received from the supplier
- · Data showing that the substance is contained was found by some means or another

Except for cases where it is required for legal compliance, the packaging material used by the party delivering the part to transport or protect it shall not be subject to the

For information transmission, use the chemSHERPA.

chemSHERPA tool and reference material (Declarable Substances Reference List, etc.) <u>https://chemsherpa.net/chemSHERPA/</u>

(Table 8)	Regulatory control and industry-wide standard of substances requiring communication of
	information

Target law and industry standard

ranget law and industry standard	
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	
[Class I Specified Chemical Substance] (Japan Chemical Substances Control Law)	

US Substances prohibited or restricted by Toxic Substances Control Act (TSCA)

EU Directive 2000/53/EC (ELV)

EU Directive 2011/65/EU (RoHS recast)

EU POPs Regulation (EU) No.2019/1021 Annex I

EU REACH Regulation (EC) No.1907/2006 Candidate List of SVHC for Authorisation and ANNEX XIV

EU Waste Framework Directive WFD (EU) No.2018/851 (SCIP)

EU REACH Regulation (EC) No.1907/2006 Annex XVII

EU Medical Devices Regulation (MDR) (EU)2017/745 : Annex I 10.4 Substances

China. Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and

Electronic Products (China RoHS)

Global Automobile Declarable Substances List (GADSL)

IEC 62474 DB Declarable substance groups and declarable substances

4.3. Additional requirements concerning plastic recycling materials

Material fracture occurred at a factory controlled by the suppliers (junk products, such as runners) use only, and circulations that the component chemical substance doesn't be guaranteed clearly are banned to use. In addition to the above, material fractures occurred at a factory which concurrently produces a product containing phthalate, which is a target of RoHS Directive, must not be used.

Note: Since phthalate is easily transmitted and mixed, recycling material fractures occurred a factory which concurrently produces a product containing phthalate is prohibited for the present. This restriction shall be reviewed at any time as needed.

4.4. Supplementary provision

The "TAMURA Group Green Procurement Standards Appendix ver.16" shall start to be applied from May 1, 2025.

5. Main revisions (Changes from the previous edition)

Effective from	revision contents
Effective from 16	 revision contents 1. Changed the thresholds for hexabromocyclododecane (HBCDD) and pentachlorophenol (PCP) in consideration of the POPs Regulation 2. Changed the following substances to Level 1 due to reaching the specified date -2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 3. Reflected the pending application for update of addition to exemptions for RoHS directive 4. The following substance regulations have been added or changed based on movements by the Stockholm Convention on Persistent Organic Pollutants and the Review Committee Revised the substance name of medium-chain chlorinated paraffins (C14-C17) (MCCP) and changed to "Level 2" Long-chain (C9-C21) Perfluorocarboxylic acids (PFCAs), its salts and related substances : as Level 2 5. Changed and added the following substances based on the REACH Regulation Perfluorohexanoic acid (PFHxA) and its salts and related substances: as Level 2 Octamethylcyclotetrasiloxane (D4), Decamethylcyclopentasiloxane (D5), Dodecamethylcyclohexasiloxane (D6): as Level 2 Per- and polyfluoroalkyl substances (PFAS) as Level 3 7. Added pentachlorophenol (PCP) based on the POPs Regulation 8. Deleted cyanide compounds as they are not regulated for containment based on domestic laws and regulations 9. Changed description of by-products of unintended substances (impurities) per the Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. 10. Moved the names of substances subject to the Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. 10. Moved the names of substances (mOAH) and saturated hydrocarbons (C16-35) (MOSH) as "Level 3" regulated substances for packaging materials 12. Changed the section on batteries to take into account the Minamata Convention on Mercurv and the EU
	 12. Changed the section on batteries to take into account the Minamata Convention on Mercury and the EU Battery Regulation 13. Reviewed and revised the list of containing banned substances (exemplification)

5. 1. Revision history

Effective from	Description
Version 1 Oct 15, 2009	Version 1 issued. - Registration number change from JT-S2-002 ver.4. - Definition change in Environmental control substances. - Change according to revision of JIG-101Ed2.0. - Restriction substance addition of domestic law. - Addition Certificate of non-use guarantees. - Other.
Version 2 Apr 1, 2010	 Version 2 issued. A change with the revision of Japan Chemical Substances Control Law. A change with the revision of 67/548/EEC and 76/769/EEC. Correction of mistakes.
Version 3 Oct 1, 2010	Version 3 issued. - Change according to revision of JIG-101Ed3.1. - Correction of mistakes.
Version 4 May 25, 2011	 Version 4 issued. Along with publication of JIG-101Ed4.0, Three materials are added as Containing banned substances. Change according to revision of applications exempted from the prohibition in Article 4 (RoHS Directive). Level 2 is added to the following material. Diarsenic Pentoxide, Diarsenic Trioxide Dibutyltin compounds (DBT) Dioctyltin compounds (DOT) Hexabromocyclododecane Part of phthalate Tris (2-chloroethyll) phosphate Notation review of Table2 and Table6. The list of GADSL and JIG101 is updated to the latest version. Correction of mistakes.
Version 5 Dec 20, 2011	 Version 5 issued. Along with publication of JIG-201Ed1.0, Three materials are added as Containing banned substances applied to a Packaging. Some contents of Exclusion in RoHS Directive are written clearly. (Lead, Cadmium) The list of SVHC is updated to the latest version. Correction of mistakes.
Version 6 Aug 8, 2012	 Version 6 issued. Along with publication of JIG-101Ed4.1, six substances are added as Containing banned substances. Correction corresponding to mention of revised JIG-101. Relaxation of the original limit about cadmium Update of the list of REACH ANNEX17. Update of the list of REACH SVHC. Update of the list of JIG-101's substances. Update of the list of GADSL. Correction of mistakes.
Version 7 Mar 25, 2013	 Version 7 issued. Change with the phthalate esters regulation of Denmark. Postscript with the correction of ANNEX4 of the RoHS Directive. Update of the list of REACH ANNEX17. Update of the list of REACH SVHC.
Version 8 Jun 9, 2014	 Version 8 issued. Update expired "Containing banned substances". In consideration of the REACH regulation, the following new substances were included as "Containing banned substances". Polycyclic aromatic hydrocarbons (PAHs) Ethylene glycol dimethyl ether (EGDME) Trixylyl phosphate (TXP) Endosulfan "Level" was reviewed in consideration of domestic and overseas legal regulations. [Level 3 ⇒ Level 1] Hexabromocyclododecane (HBCDD) and all major diastereoisomers

Effective from	Description
	[Level 1 ⇒ Level 3] 4-[4,4'-Bis(dimethylamino)benzhydrylidene] cyclohexa2,5-dien-1-ylidene] dimethylammonium chloride (C.I.Basic Violet 3)
	 Boric acid and specific sodium borates Refractory Ceramic Fibres, Aluminosilicate
	Refractory Ceramic Fibres, Zirconia Aluminosilicate - Triethyl arsenate
	 Fixed "threshold" in consideration of domestic and overseas legal regulations. Asbestos
	 PFOS/PFOS compound (include PFOSF) BervIlium Oxide (BeO)
Jun 9, 2014	 Other bromine-based compounds Cobalt dichloride
	 Polychlorinated Biphenyls (PCBs) and specific substitutes Polychlorinated Terphenyls (PCTs)
	 Polychlorinated Naphthalenes (3 or more chlorine atom) Radioactive substances
	- Cyanogen compound - Dioxins and dioxin-like compounds
	 In conjunction with the dissolution of JGPSSI (Japan Green Procurement Survey Standardization Initiative), issuing body for the previously widely-used JIG (industry standards), corrections were made to the industry standards "JIG 101" which were used by the applicable
	groups and to content related to the applicable groups.
	Version 9 issued. - Update expired "Containing banned substances".
	- In consideration of domestic and overseas laws and regulations, the following new substances
	- Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)
	- 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)
Version 9	- 2-ethylnexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) - Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-
Nov 18, 2015	stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-
	octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (Reaction mass of DOTE and MOTE)
	- Pentachlorophenol and its salts and esters
	- Modified the expression " or more", "more than", " or less", "less than" based on domestic and overseas legal regulations
	- Update various lists (including list of prohibited substances).
	- Correction of mistakes.
Version 0a	- Clerical error correction of (Table 2)" 2- (2H-1,2,3-Benzotriazol-2-yl) -4,6-di-tert-pentylphenol
Dec 18, 2015	(UV-328). "
,	[False]"level1", "Banned already" [True]"level3", "Possible until specified date"
	Version 9b issued.
Version 9b Feb 19, 2016	 Corrected the mistyping of "(Table 2) pentachlorophenol (PCP) and its salt and esters" [False] "level1"
100 10, 2010	[True] "level2"
	Version 10 issued.
Version 10 Oct 31, 2017 (To the next page)	"IEC 62474 listed substances (others)" based on IEC 62474 and listed chemical
	substances which are not listed in Green Procurement Standards.
	Carried out the following for consistency of this appendix with contents of IEC 62474. Changed details and descriptions of "reference values and threshold levels" according
	to legal requirements and IEC 62474.
	- "Asbestos"
	- "Beryllium Oxide (BeO)"
	- "Brominated flame retardants (BFR)", "Chlorinated flame retardants (CFR)"
	- Caamium and Caamium compounds" - "Chromium VI compounds"
	- "Cobalt dichloride"
	 "Diarsenic Trioxide, Diarsenic Pentoxide" "Dimethyl fumarate (DMF)"

Effective from	Description
	- "Hexabromocyclododecane (HBCDD) and all major diastereoisomers"
	 "Lead and Lead compounds"
	- "Perchlorates"
	 "Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA"
	- "Part of phthalate (Target of RoHS Directive)"
	- "Snortchain Uniorinated Parattins (C10-C13)"
	Changed substance names due to logal requirements and IEC 62474
Version 10	- "Brominated flame retardants (BER)" "Chlorinated flame retardants (CER)"
Oct 31, 2017	- "Polycyclic aromatic hydrocarbons (PAH)"
(Continued)	- "Part of phthalate (Target of RoHS Directive)"
	 "Polychlorinated Naphthalenes (2 or more chlorine atom)"
	 Carried out the following to simplify this appendix.
	- Removed English names from "(Table 1) List of containing banned substance group."
	- Removed "EC No." from (Table 6) List of Containing banned substances (exemplification).
	- Removed the list of chemical substances requiring communication of information.
	- Removed the change marks
	Version 11 issued.
	Fixed "2. Application". Clarified that packaging materials are included in the scope of
	- application.
	 Changed names of chemical components (groups) to more commonly used ones for
	consistency with industrial standards IEC62474.
	- "Cadmium / Cadmium compounds" $\; o \;$ "Cadmium and Cadmium compounds"
	- "Lead / Lead compounds" $\ \Rightarrow$ "Lead and Lead compounds"
	- "Mercury / Mercury compounds" $\; \Rightarrow \;$ "Mercury and Mercury compounds"
	- "Nickel" \Rightarrow "Nickel and nickel compounds"
	 Perfluorooctanoic acid (PFOA) and individual salts and esters of PFOA
	 Halogen compounds and halogen resins
	- Removed the item "Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-
	trimethylpentene", a Level 1 containing banned substance.
	The reason of removal is that a restriction was removed from toxic substances regulations in Canada (Prohibition of Certain Toxic Substances Regulations, 2012), which is the source.
Version 11	Changed excluded items in "Lead and Lead compounds" and "Cadmium and Cadmium Compounds."
Feb 5, 2019	Modified them according to changes in EU RoHS Directive and organized them for easier reading.
	 Added reference values to "Formaldehvde" based on TSCA in the US.
	- Modified and changed term definitions.
	- Achieved consistency with Tamura Group Green Procurement Standards (the superior
	document).
	- Added the term "Part" to make the terms more imaginable
	- Changed the note of Definition of Packaging to the following
	- Modified a restriction on mercury in batteries
	- Along with elimination of AIS, changed "AIS" in the definition of substances requiring
	communication of information to "chemSHERPA."
	- Added the following to "4.3 Additional requirements concerning plastic recycling materials."
	- Modified parts of (Table 7) Containing banned substances and examples of applicable laws
	and regulations.
	- Correction for typos
	Version 12 issued.
	- (Table 2) was changed based on the REACH Regulations Appendix XVII Entry 51 (phthalate
	ester).
Version 12	- The scope of the RoHS Directive "Parts and materials used in electrical and electronic
Oct 31, 2019	equipment and the scope of the REACH Regulations "Other than that" are written separately.
(To the next page)	the REACH Regulations were added.
	In regards to the "Other than that" and "Toys and childcare products" that originate from the
	REACH Regulations, regulate the total containing the 4 or 3 phthalate ester substances
	pursuant to the laws and regulations.

Effective from	Description
Version 12 Oct 31, 2019 (Continued)	 (Table 2) was changed based on the REACH Regulations Appendix XVII Entry 68 (PFOA). The implementation date for the regulation of "perfluorocctancic acid (PFOA)" stated in Level 2 was moved up 6 months based on requests from inside and outside the company. In addition, of the items prescribed for the implementation period by the laws and regulations, those that were deemed to have a strong relationship with the company were added. Perfluorohexanesulfonic acid (PFHXS), its salts, and PFHXS-related substances were added based on the contents reviewed by the Stockholm Convention Review Committee. This was made a prohibited substance Level 3 since it is being considered as a complete abolition substance for production, import, and use by the Persistent Organic Pollutants Review Committee (POPRC14) and since Singapore has already regulated it in its Environmental Protection Management Act (EPMA). Of the items in (Table 2), the application exemption of those shown below, state that they are equivalent to the RoHS Directive application exemption items. In addition to the above, the ROHS Directive application exemption items deemed to have a strong relationship to our company that have been stated from before were updated. Cadmium and Cadmium compounds Lead and Lead compounds Mercury and Mercury compounds The PFOS application exemption items and regulations. The Act on Special Measures concerning Countermeasures against Dioxins and the Stockholm Convention Conference of the Parties. Dioxins and dioxin-like compounds were delated This was revised based on domestic and overseas laws and regulations. The Act on Special Measures concerning Countermeasures against Dioxins and the Stockholm Convention target emissions and formation and do not regulate content, so this was deleted. The written formation and do not regulate content, so this was deleted. The wri
Version 12a Dec 18, 2019	 Clerical error correction of 'Certificate of non-use guarantees'. It has changed because of the clerical error from "No.3 Cadmium and Cadmium compounds ~ No.40" to "No.3 Beryllium Oxide (BeO) ~ No.41".
Version 13 Mar 5, 2021	 Version 13 issued. Reference legislation revised due to the establishment of POPs regulations According to POPs regulations, the restriction on two or more chlorine atoms of polychlorinated naphthalene was deleted. In consideration of the Toxic Substances Control Act (TSCA) of the US, the following substances are added as a prohibited substance. long-chain perfluoroalkyl carboxylate (LCPFAC) Phenol, isopropylated Phosphate (3:1) (PIP(3:1)) Pentachlorothiophenol(PCTP) In consideration of legislation trends, the following IEC62474 Declarable Substance List, etc., are listed as "Level 3" substances. Polycyclic aromatic hydrocarbons (PAH) [Germany. ProdSG SafeGuardS 136/19] 4,4'-isopropylidenediphenol (Bisphenol A, BPA) [U.S. California. Safe Drinking Water and Toxic, Proposition 65] Di-n-hexyl Phthalate (DnHP) [U.S. California. Safe Drinking Water and Toxic, Proposition 65] The period of the exemption No. where the application for renewal of the RoHS exemption deadline applies was changed to requested for renewal. The quotation source for RoHS exemption was changed, and the exemption column for phthalic The PFOS application exemption items were deleted based on the results of the Stockholm Convention Conference of the Parties.

Effective from	Description
Version 13 Mar 5, 2021 (Continued)	 Reflects the regulation contents of Perfluorooctanoic acid (PFOA) in response to being regulated by 'POPs Regulation' and 'the Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc'. Bis(tri-n-butyltin)oxide(TBTO) is changed from 'Specified organic tin compounds' to regulated substances under 'the Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc', and intentional addition was prohibited. SCIP of the EU Waste Framework Directive WFD was added to the substances requiring communication of information.
	 Item 3 and 4 of 'Green procurement supplier questionnaire' is changed to request documents only when there are changes to contents submitted in the past. Attached document was added to 'the Certificate of non-use guarantees' to make it possible to answer by limiting the target for non-use guarantees.
Version 14 Dec 20, 2021	 Version 14 issued. Added compliance with the Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc., to the definition for the term "intentional addition" Changed the non-use guarantee to segment management and deleted it. Added the method for requesting a non-use guarantee for prohibited substances. The following substance regulations have been added or changed based on movements by the Stockholm Convention on Persistent Organic Pollutants and the Review Committee 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene (DechloranePlus) 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) Perfluorohexane-1-sulphonic acid and its salts (PFHxS) and PFHxS-related substances : as Level 2 Changed polybrominated diphenyl ethers to listing for both the POPs Regulation and RoHS Directive Added the following substances based on the REACH regulation Long-chain (C9-C14) Perfluorocarboxylic acids (PFCAs), its salts and related substances : as Level 2 Perfluorohexanoic acid (PFHxA) and its salts and related substances : as Level 3 In consideration of Canada "Prohibition of Certain Toxic Substances Regulations" trends, Decabromodiphenylethane (DBDPE) are listed as "Level 3" substance o,p-Dicofol (Benzenemethanol, 2-chloro-a-(4-chlorophenyl) (trichloromethyl)-) was added to Japan, "Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc" Modified and added substances of "A list of Containing banned substances (Exemplification)" Changed name of China regulation to "Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products from "Administrative Measure on the Control of Pollution Caused by Electronic Information Products".
Version 15 Dec 26, 2022	 Version 15 issued. Changed the following substances to Level 1 due to reaching the specified date 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (DechloranePlus) Perfluorohexane-1-sulphonic acid (PFHxS), its salts and related substances Long-chain (C9-C14) Perfluorocarboxylic acids (PFCAs), its salts and related substances Reflected the pending application for update of addition to exemptions for RoHS directive The following substance regulations have been added or changed based on movements by the Stockholm Convention on Persistent Organic Pollutants and the Review Committee 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) : as Level 2 Medium-chain Chlorinated Paraffins (C14–C17)(MCCP) : as Level 3 Long-chain (C9-C21) Perfluorocarboxylic acids (PFCAs), its salts and related substances : as Level 3 Based on REACH regulation, changed BPA to a substance group containing Tetrabromobisphenol A(TBBPA), which is a similar substance In consideration of the POPs regulation, changed hexachlorobenzene (HCB) from the Act on the Regulation of Manufacture and Evaluation of Chemical Substances to separate management Added China's "Content Limitation of Mercury, Cadmium and Lead for Zinc Anode Primary Battery (GB24427-2021)" to the battery-related additional items (Table 5) Deleted substances for which legal regulations have been confirmed from the list of prohibited substances (example substances) Added China's " Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products (China RoHS)" to the Regulatory control of substances

"Green procurement" supplier questionnaire

<u>1. Information of primary business partner</u>

Date of entry	
Company name	
Post/organization	
Person making entry	
TEL	
FAX	
E-mail	

2. About an agreement of the "Green Procurement standard"

Please fill in the check mark to the corresponding section.

We agree the "Green Procurement standard" and your request .

We can't agree the "Green Procurement standard" and your request .

(Please fill in a point and the reason why you cannot agree to.)	

3. Is the green procurement executed? (Please fill in the check mark on corresponding **D**.)



<u>4. Is the certification of ''ISO14001'' obtained? (Please fill in the check mark on corresponding .)</u>

