

**JIC GROUP**  
**GREEN PROCUREMENT STANDARD**

Version1

1st Edition: Dec. 12, 2013

**JAGUAR INTERNATIONAL CORPORATION**



## Table of Contents

### Green Procurement Standard

Items	
Cover Sheet	
Revision History	
Table of Contents	
Items	Page No.
<I> Basic Approach to the Environment	1
<II> Specific Way of Approach	2
1. Scope of Application	2
2. Definition of Terminology	2
3. JAGUAR Group's Management Criteria on Environmental Impact Substances	2
4. Requests for business partners	3
(1) Submission of a "certificate of disuse of environmental Impact substances "	3
(2) Submission of a "confirmation document about inclusion of environmental Impact substances"	4
(3) Submission of "high-accuracy analysis data"	4
(4) Submission of MSDSplus and AIS	4
(5) Additional requirement to component delivery specification	4
(6) Management system of environmental impact substances	4
5. Confirmation of documents submitted from business partners	5
6. Referred URL	5
Appendix	No.
List of Substance Groups to Be Investigated	Appendix 1
List of Production Environmental Impact Substances	Appendix 2
Instances of PFOS compounds 96 Substances List	Appendix 3
Certificate of Disuse of Environmental Impact Substances	Appendix 4
Submission of Certificate of Disuse of Environmental Impact Substances	Appendix 5
Confirmation Document about inclusion of Environmental Impact Substances	Appendix 6
Submission of Confirmation Document about inclusion of Environmental Impact Substances	Appendix 7
List of High-accuracy Analysis Data	Appendix 8
Submission of High-accuracy Analysis Data	Appendix 9
Chemical Substances to be Analyzed and High-accuracy Analysis Equipments	Appendix 10

## <I> Basic Approach to the Environment

As issues on the global environment have recently been highlighted, companies are subject to take their social responsibility.

JAGUAR INTERNATIONAL CORPORATION GROUP (JIC GROUP), which deals in manufacture/sales of home-use sewing machines, has positively defined a philosophy and basic policies on the environment while looking ahead to the future and developed business operations to achieve an environmentally-sound and recycling-oriented society based on the environmental philosophy and policies.

In order to enrich such activities, it is necessary to strengthen environmental conservation activities by cooperating with business partners and to reduce burdens on the environment and avoid environmental risks by procuring components with a low impact on the environment.

Especially in EU (European Union), in addition to the "ROHS directives" that came into effect in July, 2006, the "REACH regulations" were established in December, 2006. Laws and regulations on environmental impact substances contained in a product have been strictly enforced.

Considering the abovementioned background, JIC GROUP decided to update the "Green Procurement Standard".

JIC Group will promote manufacturing of environmentally-friendly products and development of business activities with emphasis on the environment by cooperating with business partners. Therefore, your understanding on importance of efforts to conserve the environment and cooperation will be appreciated.

### 1. Environmental Philosophy

**JIC GROUP will aim at a company coexisting with the environment of the irreplaceable earth.**

### 2. Basic Policy on the Environment

JIC GROUP will promote environmental conservation activities based on the following policies because the company is involved in development, design and sales of sewing machines:

1). JIC GROUP will understand environmental effects related to the business activities, define and regularly review as many environmental purposes and goals as possible from economical and technical standpoints and conduct environmental conservation activities to achieve the purposes and goals;

- ① Will promote environmentally-friendly product designs.
- ② Will reduce and manage environmental impact substances.

2). JIC GROUP will comply with regulations, ordinances, agreements and other agreed requirements on environmental conservation.

3). JIC GROUP will prevent environmental destruction by conducting an environmental assessment, internal audit related to the environment and so on and continuously improving the environmental management system.

4). Through environment education and communication at workplace, JIC GROUP will keep everyone engaged in business operations informed about the environmental policies and enhance awareness on environmental issues.

5). JIC GROUP's basic policy on the environment will be disclosed externally.

## <II> Specific Way of Approach

### 1.Scope of Application

Applicable to members/Sub-materials/packaging materials and finished products procured by JIC Group.

### 2.Definition of Terminology

- (1) Environmental impact substances  
Substances that have severe impacts on the global environment and human body as assessed by JIC group.
- (2) Homogeneous material  
Material that cannot be mechanically disassembled into different materials  
Homogeneous: The entire constitutive material is homogeneous.  
Examples: Plastic, glass, metal, alloy, paper, board, resin, coating.  
Mechanical disassembly: Material that can be separated/disassembled through mechanical action such as removal of screws and cutting, crushing, grinding or polishing.
- (3) Inclusion  
Substances are added, filled, mixed or attached, whether intentionally or not, to components consisting of products or materials used in components
- (4) Impurities  
Substances that are contained in natural materials and cannot be technically removed as industrial materials during purification process or substances that are generated during the process of synthetic reaction and cannot be technically removed
- (5) Substance (Chemical substance)  
A substance (chemical substance) is an elemental unit and compound. It is existed naturally or is made in manufacturing process. Additives required for maintaining stability of a substance and impurities generated in the process are included. However, solvents that can be separated without effect on stability of a single chemical substance or changes in composition are excluded.  
Examples: Lead oxide, nickel chloride, benzene
- (6) Preparation  
A preparation is two or more kinds of chemical substances mixed intentionally  
Examples: Paint, ink, solder before use, adhesive, alloy
- (7) Article (Molding)  
An article is one to which a unique form, physical appearance or design that determines functionality of the final use instead of the chemical composition is given during manufacturing process  
Examples: Assembled articles such as a keyboard and main unit of PCs.  
The size is larger than original components
- (8) Substances of Very High Concern (SVHC)  
Carcinogenic substances, mutagenic substances, reproductive toxicants, and chemical substances that are persistent and accumulated in the environment or living organisms declared in a list of substances acknowledged by the European Chemical Agency.  
Some times substances of very high concern are added or reviewed and the list will be updated.
- (9) Sub-materials  
Parts not described in a parts list in manufacturing specification, such as flux, diluents materials (thinner and alcohol), detergent, masking materials/tapes, shipping tapes, marker pens, ink, buffer materials, dry materials.

### 3. JIC group's Management Criteria on Environmental impact substances

JIC Group basically complies with \*JIG, a guideline recommended by Japan Green Procurement Survey Standardization Initiative (JGPSSI).

\* JIG: a guideline (Joint Industry Guide) agreed by U. S.A. (CEA), Europe (DIGITALEUROPE) and Japan (JGPSSI)

JIG is available from JGPSSI's URL mentioned in Item 6 below

JIC Group's management criteria on environmental impact substances are as follows:

(1) Environmental impact substances

- (a) Substances that must not be contained in any products and substances that must be managed are shown in **Appendix 1** "List of Substance Groups to Be Investigated".

However, banned substances must not be transferred into any products during manufacturing process. Also, Ozone depleting substances (chlorofluorocarbon etc.) must not be used during manufacturing process.

Remarks: Substances might be individually added if necessary.

- (b) Banned environmental impact substances (Environmental impact substances for which disuse must be assured)

For the investigation of environmental impact substances, business partners must not only confirm whether materials are contained but also consider possibilities that materials are mixed or transferred into products.

For substances that must not be contained in any products, refer to criteria "R" and "A" in **Appendix 1** "List of Substance Groups to Be Investigated"

**\*Criteria "R": Substances prohibited by laws and regulations**

**\*Criteria "A": Substances likely prohibited by laws and regulations**

- (c) Managed environmental impact substances

i) Criteria "I" in **Appendix 1** "List of Substance Groups to Be Investigated"

ii) REACH, \*SVHC – Substances not mentioned in **Appendix 1** "List of Substance Groups to Be Investigated" but designated as SVHC

\* For SVHC substances, if the content rate exceeds 1000ppm, details about inclusion of such substances must be reported.

**\*Criteria "I": Substances to be reported for inclusion**

- (d) For details about banned environmental impact substances and managed environmental impact substances, refer to **Appendix 2** "List of Production Environmental impact substances" and **Appendix 3** "Instances of PFOS compounds <96 Substances List>".

(2) Management level of contained environmental impact substances

- (a) Banned environmental impact substances must not be intentionally added. However, exempted purposes such as in ROHS directives, etc. are not applicable are excluded.

- (b) The maximum acceptable levels of impurities of environmental impact substances in JIC Group must be equal to the threshold levels in **Appendix 1** "List of Substance Groups to Be Investigated". However if the management levels are specified, impurities of environmental impact substances must be managed with the management level. If the management level is surpassed, reanalysis must be conducted and then, reason why the excess level of impurities is contained must be clarified and the level of impurities must be reduced to below the management level

- (c) Phthalate ester

The total level of three substances(DEHP, DBP, BBP) must be below 1000ppm

- (d) For REACH SVHC, the contained level of each substance must be below 1000ppm

(3) Management level for packaging materials

For heavy metals (cadmium, lead, hexavalent chrome and mercury), in each parts consisting of a package, the total level of heavy metals must be below 100 ppm. However, cadmium and lead must also satisfy the threshold levels mentioned in Item 3 (2) (b).

4. Requests for business partners

(1) Submission of a "Certificate of Disuse of Environmental Impact Substances"

- (a) Content to be assured

Business partners need to ensure that no environmental impact substances must be used for/contained in any products. For details, refer to **Appendix 5** "Submission of Certificate of Disuse of Environmental impact Substances".

- (b) How to report

By following the format of "Certificate of Disuse of Environmental Impact Substances" in **Appendix 4**, fill in and submit a document simultaneously with a "Confirmation Document about inclusion of Environmental Impact Substances".

- (2) Submission of a "Confirmation Document about inclusion of Environmental impact Substances"
- (a) Contents to be investigated  
The partners need to confirm whether chemical substances are contained in products, the inclusion of amount, rate of inclusion, in which part and for what purpose chemical substances are contained and so on.
- (b) Items to be investigated  
.For details, refer to **Appendix 7** "Submission of Confirmation Document about Inclusion of Environmental impact Substances".
- (c) How to report  
By following the format of "Confirmation Document about Inclusion of Environmental Impact Substances" in **Appendix 6**, fill in and submit a document. If the Excel version is necessary, ask a contact below or Purchase Department.
- (3) Submission of "High-accuracy Analysis Data" in **Appendix 8** (Only ROHS six substances must be analyzed.)
- Analysis data on inclusion concentration  
Analysis data acquired with high-accuracy analysis equipment or equivalent analysis equipment must be submitted.  
Data analyzed with an X-ray fluorescence spectrometer that have a significant correlation with analysis results from high-accuracy analysis equipment can be acceptable.  
For details, refer to **Appendix 9** 'Submission of High-accuracy Analysis Data'
- ① Materials to be measured and high-accuracy analysis equipment: Refer to **Appendix 10** "Chemical Substances to be Analyzed and High-accuracy Analysis Equipment"
- ② Measurement method: Refer to measurement specifications of analysis equipment in **Appendix 10** "Chemical Substances to be Analyzed and High-accuracy Analysis Equipment"
- ③ How to report: By following the format of "List of High-accuracy Analysis Data" in **Appendix 8**, fill in and submit a document, or submit a similar list of analysis data and a set of high-accuracy analysis data.
- ④ Frequency: when a new material, etc. is adopted and after that, once per year
- (4) Submission of MSDSplus and AIS  
By following the format issued by Joint Article Management Promotion Consortium (JAMP), submit MSDSplus or AIS data.  
These data must be updated every time SVHC are updated.  
MSDSplus data must be submitted for substances and preparation, and AIS data must be submitted for articles.  
Documents and tools related to MSDSplus and AIS are available at JAMP's URL mentioned in item 5 below.
- (5) Additional requirement to product delivery specification
- (a) For chemical substances defined by JIC Group, attach data specified in Item 4 (1) (2) and 3) to a product delivery specification to clarify that your products are categorized into chemical substances defined by JIC Group.
- (b) Identify that delivered products are chemical substances defined by JIC Group on an outer case or box and individual package. In addition, make sure to describe the content of identification in a product delivery specification.
- (6) Management system of environmental impact substances  
Establish, maintain and manage the management system of chemical substances based on the "Guidelines for the Management of Chemical Substances in Products Ver. 2" issued by JGPSSI or JAMP. These guidelines are available at JGPSSI's and JAMP's URL mentioned in Item 6 below.

#### 5. Confirmation of documents submitted from business partners

In order to carry out JIC Group's green procurement, contents and forms to be submitted from business partners are shown below.

Contents to be reported		Forms to be submitted	
Environmental Impact Substances	Confirmation of inclusion	Certificate of Disuse of Environmental Impact Substances	Appendix 4
		Confirmation Document about inclusion of Environmental Impact Substances	Appendix 6
	Inclusion concentration	High-accuracy Analysis Data	Appendix 8
Confirmation of REACH	Confirmation of inclusion based on	Confirmation of inclusion of SVHC	MSDS plus, AIS (JAMP URL)

#### 6. Referred URL

- (1) Japan Green Procurement Survey Standardization Initiative (JGPSSI)  
URL: <http://www.jgpssi.jp/>  
URL: [http://www.db1.co.jp/jeita\\_eps/green/greenTOP.html](http://www.db1.co.jp/jeita_eps/green/greenTOP.html)
- (2) Japanese National VT62474 (Japanese National Commission for IEC/TC111)  
URL: <http://www.vt62474.jp/>
- (3) Joint Article Management Promotion Consortium (JAMP)  
URL: <http://www.Jamp-info.com/>
- (4) JAGUAR INTERNATIONAL CORPORATION  
URL: <http://www.jaguar-net.co.jp/>



## Appendix 1 List of Substance Groups to Be Investigated

Criteria	JGPSSI Classification	Substance/Category	Portion/Material	Reportable Application	Threshold Level	Management Level
R	A05	Cadmium/cadmium compounds	outer parts,resin others	All, except batteries	100ppm	50ppm 75ppm
R	A07	Chromium VI compounds			1000ppm	800ppm
R	A09	Lead/lead compounds	Solder(Bar,Wire condition) Solder processing part outer parts,resin Plating others	except follow Lead,cord	500ppm 1000ppm 100ppm 1000ppm 1000ppm 300ppm	500ppm 850ppm 100ppm 850ppm 850ppm
R	A10	Mercury/mercury compounds	outer parts,resin others	All, except batteries	100ppm 1000ppm	100ppm 500ppm
R	A11	Nickel		All, where prolonged skin contact is expected	Intentionally added	
R	A17	Tributyl Tin Oxide(TBTO)		All	1000ppm	
R	A18	Certain Tributyl Tin (TBT) and Triphenyl Tin (TPT) compounds		All	Intentionally added	
I	A19	Beryllium Oxide (BeO)		Ceramics	1000ppm	
R	A20	Diarsenic Pentoxide		All	1000ppm	
R	A21	Diarsenic Trioxide		All	1000ppm	
R	B02	Polybrominated Biphenyls (PBBs)		All	1000ppm	800ppm
R	B03	Polybrominated Diphenylethers (PBDEs)		All	1000ppm	800ppm
R	B14	Deca-Bromodiphenylether (Deca-BDE) (PBDE)		Highly polymerized compound	1000ppm	800ppm
R	B11	Hexabromocyclododecane (HBCDD) and all major diastereoisomers		All	1000ppm	800ppm
I	B08	Brominated flame retardants (other than PBBs,PBDEs, or HBCDD)		Plastic parts >25 grams other than in Printed Circuit Assemblies	1000ppm	
R	B05	Polychlorinated Biphenyls (PCBs) and specific substitutes		All	Intentionally added	
R	B15	Polychlorinated Terphenyls (PCTs)		All	Intentionally added	
R	B06	Polychlorinated Naphthalenes (more than 3 chlorine atoms)		All	Intentionally added	
R	B09	Shortchain Chlorinated Paraffins (C10 - C13)		All	1000ppm	
A	B16	Tris (2-chloroethyl) phosphate (TCEP)		All	1000ppm	
R	B12	Perchlorates		All	0.006ppm	
R	B13	Perfluorooctane sulfonate (PFOS)		All	Intentionally added	
R	B10	Fluorinated greenhouse gases (PFC, SF6, HFC)		All	Intentionally added	
I	B07	Polyvinyl Chloride			1000ppm of the products	
R	C01	Asbestos		All	Intentionally added	
R	C02	Azocolourants and azodyes which form certain aromatic		Textiles and leather	30ppm	
R	C04	Ozone Depleting Substances		All	Intentionally added	
R	C06	Radioactive substances		All	Intentionally added	
R	C07	Formaldehyde		Textiles Composite wood (plywood, particle board, MDF) products or Components	75ppm Intentionally added	

Criteria	JGPSSI Classification	Substance/Category	Portion/Material	Reportable Application	Threshold Level	Management Level
R	C08	2-(2H-1,2,3-benzotriazol-2-yl)-4,6-di-tert-butylphenol		All	Intentionally added	
R		Phthalates				
	C09	DEHP DBP BBP			1000ppm (C09 substances totally)	
	C10	DINP DIDP DNOP			C10 must report	
		Cobalt chloride		All	1000ppm(0.1wt%) of the products	
				Indicator in desiccant	Intentionally added or 100ppm of the products	
		Dimethyl fumarate(DMF)		Products intended for consumer or that may be used by consumer	0.1ppm(0.00001wt%) in a material	
		Dibutyltin(DBT)compounds		All	1000ppm(0.1wt%) of Tin in a material	
		Diocetyl tin(DOT)compounds		(a)textile and leather articles intended to come into contact with the skin (b)childcare articles (C)twocomponent room temperaure vulcanisation moulding kits(RTV-2)	1000ppm(0.1wt%) of Tin in a material	

Inclusion concentration to be assured in parts/products delivered to JIC Group shall be equal to value specified as the threshold level.

Also, for banned impurities, if management level is specified, inclusion concentration must be managed with the management level.

If the amount is surpassed, Supplier must conduct reanalysis, clarify reason for excess inclusion and reduce the level to below the management level.

\* Impurities must not be intentionally added and must be below the above level.

\* As outer parts, ink and paint are included.

Compliance with RoHS exempted for lead in metals

Substance	Material	Threshold level
Lead (ratio by weight)	Copper alloy (including brass and phosphor bronze)	Below 4%
	Aluminum alloy	Below 0.4%
	Iron	Below 0.35%

Packaging materials

Substance	Threshold level
Cadmium, Hexavalent chromium, Lead, Mercury	Totally below 100ppm

\* Packaging materials are delivered to final consumers along with JIC Group's products, including individual packaging boxes, vinyl bags, plastic bags and components for specific packages designated by customers.

\* As of this moment, packaging materials disposed within JIC Group, such as cardboard boxes shall not be managed.

Appendix 2  
List of Production Environmental  
Impact Substances (1/13)

1A 使用禁止物質

Banned Substances

1A-1 オゾン層保護法に定める特定物質及び指定物質 Specific Substances and Designated Substances Stipulated in the Ozone Layer Protection Law			
No.	CAS No.	物質名	Substance
1	—	CFC	CFC
2	—	ハロン	Halon
3	56-23-5	四塩化炭素	Carbon tetrachloride
4	71-55-6	1,1,1-トリクロロエタン	1,1,1-Trichloroethane
5	—	HCFC	HCFC
6	—	HBFC	HBFC
7	74-97-5	ブロモクロロメタン	Bromochloromethane
8	74-83-9	臭化メチル	Methyl bromide
1A-2 土壌汚染防止のための使用禁止物質(当社基準) Banned Substances for Preventing Soil Contamination (JIC Standards)			
No.	CAS No.	物質名	Substance
(3)	56-23-5	四塩化炭素	Carbon tetrachloride
9	107-06-2	1,2-ジクロロエタン	1,2-Dichloroethane
10	75-35-4	1,1-ジクロロエチレン	1,1-Dichloroethylene
11	156-59-2	シス-1,2-ジクロロエチレン	Cis-1,2-Dichloroethylene
12	542-75-6	1,3-ジクロロプロペン	1,3-dichloropropene
13	75-09-2	ジクロロメタン	Dichloromethane
14	127-18-4	テトラクロロエチレン	Tetrachloroethylene
(4)	71-55-6	1,1,1-トリクロロエタン	1,1,1-Trichloroethane
15	79-00-5	1,1,2-トリクロロエタン	1,1,2-Trichloroethane
16	79-01-6	トリクロロエチレン	Trichloroethylene
17	71-43-2	ベンゼン	Benzene
1A-3 大気汚染防止法の特定粉塵 Specific Dusts of the Air Pollution Control Law			
No.	CAS No.	物質名	Substance
18	—	石綿(アスベスト)	Asbestos
1A-4 化学物質の審査及び製造等の規制に関する法律の第1種特定化学物質 Class 1 Specific Chemical Substances of Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances			
No.	CAS No.	物質名	Substance
19	—	PCB	PCB
20	—	ポリ塩化ナフタレン(塩素数が3以上のものに限る)	Polychlorinated naphthalene (3 or more chlorine atoms)
21	118-74-01	ヘキサクロロベンゼン	Hexachlorobenzene
22	309-00-2	アルドリ	Aldrin
23	60-57-1	ディルドリン	Dieldrin
24	72-20-8	エンドリン	Endrin
25	50-29-3	DDT	DDT
26	—	クロルテン類	Chlordane
27	56-35-9	ビス(トリブチルスズ)オキシド	Bis(tributyltin) oxide
28	—	N,N'-ジトリル-パラフェニレンジアミン、N-トリル-N'-キシリル-パラフェニレンジアミン又はN,N'-ジキシリル-パラフェニレンジアミン	N,N'-ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine, N,N'-dixylyl-p-phenylenediamine
29	732-26-3	2,4,6-トリ-tert-ブチルフェノール	2,4,6-Tri-tert-butylphenol
30	8001-35-2	ポリクロロ-2,2-ジメチル-3-メチレンシクロ[2.2.1]ヘプタン(別名トキサフェン)	Toxaphene
31	2385-85-5	トデカクロロ(ペンタシクロ[5.3.0.0.0 <sup>2</sup> .0 <sup>3</sup> .0 <sup>4</sup> .0 <sup>5</sup> テカソ])(別名マレックス)	Mirex
32	115-32-2	2,2,2-トリクロロ-1,1-ビス(4-クロロフェニル)エタノール(別名ケルセン又はジコホル)	Dicofol
33	87-68-3	ヘキサクロロブタ-1,3-ジエン	Hexachlorobuta-1,3-diene
34	3846-71-7	2-(2H-1,2,3-ベンゾトリアゾール-2-イル)-4,6-ジ-tert-ブチルフェノール	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol

Appendix 2  
List of Production Environmental  
Impact Substances (2/13)

Green Procurement Standard

1A-5 労働安全衛生法施行令の製造禁止物質 Substances Banned from being Manufactured			
No.	CAS No.	物質名	Substance
35	—	黄りんマッチ(黄りん)	Tetra phosphorus
36	—	ベンジジン及びその塩	Benzidine and its salts
37	—	4-アミノビフェニル及びその塩	4-Aminobiphenyl and its salts
(18)	—	石綿(アスベスト)	Asbestos
38	—	4-ニトロビフェニル及びその塩	4-Nitrobiphenyl and its salts
39	—	ビス(クロロメチル)エーテル	Bis(chloromethyl) ether
40	—	$\beta$ -ナフチルアミン及びその塩	$\beta$ -Naphthylamine
41	—	ベンゼン含有ゴムのり(ベンゼン容量:>5%)	Rubber cement containing benzene (benzene:>5v/v%)

Appendix 2  
List of Production Environmental  
Impact Substances (3/13)

1B 管理対象物質  
Controlled Substances

1B-1 PRTR第1種対象物質 PRTR Class 1 Chemical Substances (of Japan)			
No.	CAS No.	物質名	Substance
42	-	亜鉛の水溶性化合物	Zinc compounds (water soluble)
43	79-06-1	アクリルアミド	Acryl amide
44	140-88-5	アクリル酸エチル	Ethyl acrylate
45	-	アクリル酸及びその水溶性塩	Acrylic acid and its water-soluble salts
46	2439-35-2	アクリル酸2-(ジメチルアミノ)エチル	2-(Dimethylamino)ethyl acrylate
47	-	アクリル酸2-ヒドロキシエチル	2-hydroxyethyl acrylate
48	-	アクリル酸ノルマルブチル	n-butyl acrylate
49	96-33-3	アクリル酸メチル	Methyl acrylate
50	107-13-1	アクリロニトリル	Acrylonitrile
51	107-02-8	アクロレイン	Acrolein
52	26628-22-8	アジ化ナトリウム	sodium azide
53	75-07-0	アセトアルデヒド	Acetaldehyde
54	75-05-8	アセトニトリル	Acetonitrile
55	75-86-5	アセトンシアンヒドリン	acetone cyanohydrin
56	83-32-9	アセナフテン	acenaphthene
57	78-67-1	2, 2'-アゾビスイソブチロニトリル	2,2'-Azobisisobutyronitrile
58	90-04-0	オルト-アニシジン	o-anisidine
59	62-53-3	アニリン	Aniline
60	82-45-1	1-アミノ-9, 10-アントラキノン	1-amino-9,10-anthraquinone
61	141-43-5	2-アミノエタノール	2-Aminoethanol
62	1698-60-8	5-アミノ-4-クロロ-2-フェニルピリダジン-3(2H)-オン(別名クロリダゾン)	5-amino-4-chloro-2-phenylpyridazin-3(2H)-one(chloridazon)
63	120068-37-3	5-アミノ-1-[2, 6-ジクロロ-4-(トリフルオロメチル)フェニル]-3-シアノ-4-[(トリフルオロメチル)スルフィニル]ピラゾール(別名フィプロニル)	5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-cyano-4-[(trifluoromethyl)sulfinyl]pyrazole
64	123-30-8	パラ-アミノフェノール	p-Aminophenol
65	591-27-5	メタ-アミノフェノール	m-Aminophenol
66	21087-64-9	4-アミノ-6-ターシャリ-ブチル-3-メチルチオ-1, 2, 4-トリアジン-5(4H)-オン(別名メトリブズ)	4-amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one(metribuzin)
67	107-11-9	3-アミノ-1-プロペン	3-amino-1-propene
68	41394-05-2	4-アミノ-3-メチル-6-フェニル-1, 2, 4-トリアジン-5(4H)-オン(別名メタミトロン)	4-amino-3-methyl-6-phenyl-1,2,4-triazin-5(4H)-one(metamitron)
69	107-18-6	アリルアルコール	Allyl alcohol
70	106-92-3	1-アリルオキシ-2, 3-エポキシプロパン	1-allyloxy-2,3-epoxypropane
71	-	直鎖アルキルベンゼンスルホン酸及びその塩(アルキル基の炭素数が10から14までのもの及びその混合物に限る。)	n-alkylbenzenesulfonic acid and its salts (alkyl C=10-14)
72	-	アンチモン及びその化合物 compounds	Antimony and its
73	120-12-7	アントラセン	anthracene
74	4098-71-9	3-イソシアナトメチル-3, 5, 5-トリメチルシクロヘキシル=イソシアネート	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
75	78-84-2	イソブチルアルデヒド	isobutyraldehyde
76	78-79-5	イソブレン	Isoprene
77	80-05-7	4, 4'-イソプロピリデンジフェノール(別名ビスフェノール)	Bisphenol A
78	4162-45-2	2, 2'-[イソプロピリデンビス[(2, 6-ジブロモ-4, 1-フェニレン)オキシ]]ジエタノール	2,2'-[Isopropylidenebis[(2,6-dibromo-4,1-phenylene)oxy]]diethanol
79	2222-92-6	N-イソプロピルアミノホスホン酸O-エチル-O-(3-メチル-4-メチルチオフェニル)(別名フェナイソプロピル=2-(4-メチルチオフェニル)-3-イソプロピル)ヒドラジノホルマート(別名ビフェナゼート)	O-ethyl-O-(3-methyl-4-methylthiophenyl) N-isopropylaminophosphonate(fenamiphos)
80	149877-41-8	イソプロピル=2-(4-メチルチオフェニル)-3-イソプロピル)ヒドラジノホルマート(別名ビフェナゼート)	isopropyl-2-(4-methoxybiphenyl-3-yl)hydrazinofornate(bifenazate)
81	66332-96-5	3'-イソプロポキシ-2-トリフルオロメチルベンズアニリド(別名フルトラン)	3'-isopropoxy-2-trifluoromethylbenzanilide(flutolanil)
82	96-45-7	2-イミダゾリジンチオン	2-imidazolidinethione
83	13516-27-3	1, 1'-[イミノジ(オクタメチレン)]ジグアニジン(別名イミノクタジン)	1minoctadine
84	-	インジウム及びその化合物 compounds	indium and its
85	75-08-1	エタンチオール	Ethanethiol
86	76578-14-8	エチル=2-[4-(6-クロロ-2-キノキサリニルオキシ)フェノキシ]プロピオナート(別名キザロホップ)	Ethyl 2-[4-(6-chloro-2-quinoxanyloxy)phenoxy]propionate

List of Production Environmental  
Impact Substances (4/13)

No.	CAS No.	物質名	Substance
87	36335-67-8	O-エチル=O-(6-ニトロ-メタ-トリル)=セカン	Butamifos
88	2104-64-5	O-エチル=O-4-ニトロフェニル=フェニルホス ホノチオアート(別名EPN)	EPN
89	40487-42-1	N-(1-エチルプロピル)-2,6-ジニトロ-3,4- キシリジン(別名ペンディメタリン)	Pendimethalin
90	2212-67-1	S-エチル=ヘキサヒドロ-1H-アゼピン-1-カル ボチオアート(別名モリネート)	Molinate
91	149-57-5	2-エチルヘキサン酸	2-ethylhexanoic acid
92	83130-01-2	エチル=(Z)-3-(N-ベンジル-N-{[メチル (1-メチルチオエチリデンアミノオキシカルボニル) アミノ]チオ]アミノ)プロピオナート(別名アラニカル エチルベンゼン)	ethyl(Z)-3-[N-benzyl-N-[[methyl(1- methylthioethylideneaminooxycarbonyl)amino]thio]a mino]propionate(alanvcarb)
93	100-41-4	エチルベンゼン	Ethyl benzene
94	98886-44-3	O-エチル=S-1-メチルプロピル=(2-オキソ -3-チアゾリジン)ホスホノチオアート(別名ホス エチレンイミン)	O-ethylS-1-methylpropyl(2-oxo-3- thiazolidinyl)phosphonothioate(fosthiazate)
95	151-56-4	エチレンイミン	ethylene mine
96	75-21-8	エチレンオキシド	Ethylene oxide
97	110-80-5	エチレングリコールモノエチルエーテル	Ethylene glycol monoethyl ether
98	109-86-4	エチレングリコールモノメチルエーテル	Ethylene glycol monomethyl ether
99	107-15-3	エチレンジアミン	Ethylenediamine
100	60-00-4	エチレンジアミン四酢酸	Ethylenediaminetetraacetic acid
101	12427-38-2	N, N'-エチレンビス(ジチオカルバミン酸)マンガ ン(別名マンネブ)	Maneb
102	8018-01-7	N, N'-エチレンビス(ジチオカルバミン酸)マンガン とN, N'-エチレンビス(ジチオカルバミン酸)亜鉛の 錯化合物(別名マンコゼブ又はマンゼブ)	mancozeb
103	85-00-7	1,1'-エチレン-2,2'-ビピリジニウム=ジブロミ ド(別名ジクアトジブロミド又はジクワット)	1,1'-ethylene-2,2'-bipyridiniumdibromide
104	80844-07-1	2-(4-エトキシフェニル)-2-メチルプロピル=3- フェノキシベンジルエーテル(別名エトフェンブ エピクロロヒドリン)	2-(4-ethoxyphenyl)-2-methylpropyl3- phenoxybenzyl ether(etofenprox)
105	106-89-8	エピクロロヒドリン	Epichlorohydrin
106	106-88-7	1,2-エポキシブタン	1,2-epoxybutane
107	556-52-5	2,3-エポキシ-1-プロパノール	2,3-Epoxy-1-propanol
108	75-56-9	1,2-エポキシプロパン(別名酸化プロピレン)	Propylene oxide
109	122-60-1	2,3-エポキシプロピル=フェニルエーテル	2,3-Epoxypropyl phenyl ether
110	155569-91-8	エマメクチン安息香酸塩(別名エマメクチンB1a安息 香酸塩及びエマメクチンB1b安息香酸塩の混合物)	emamectin benzoate(mixture of emamectinB1a benzoateand emamectinB1b benzoate)
111	7705-08-0	塩化第二鉄	ferric chloride
112	85535-84-8	塩化パラフィン(炭素数が10から13までのもの及び その混合物に限る。)	chlorinated paraffin (C=10-13)
113	111-87	1-オクタノール	1-Octanol
114	1806-26-4	パラ-オクチルフェノール	p-Octylphenol
115	-	カドミウム及びその化合物	Cadmium and its compounds
116	105-60-2	イプシロン-カプロラクタム	$\epsilon$ -Caprolactam
117	156-62-7	カルシウムシアナミド	calcium cyan amide
118	1330-20-7	2,4-キシレノール	2,4-xyleneol
119	576-26-1	2,6-キシレノール	2,6-xyleneol
120	1330-20-7	キシレン	Xylene
121	91-22-5	キノリン	quinoline
122	-	銀及びその水溶性化合物	Silver and its compounds (water soluble)
123	98-82-8	クメン	cumene
124	107-22-2	グリオキサール	Glyoxal
125	111-30-8	グルタルアルデヒド	Glutaraldehyde
126	1319-77-3	クレゾール	Cresol
127	-	クロム及び三価クロム化合物	Chromium and chromium (III)compounds
128	-	六価クロム化合物	Chromium(VI) compounds
129	-	クロロアニリン	Chloroaniline
130	1912-24-9	2-クロロ-4-エチルアミノ-6-イソプロピルアミノ -1,3,5-トリアジン(別名アトラジン)	Atrazine
131	21725-46-2	2-(4-クロロ-6-エチルアミノ-1,3,5-トリア ジン-2-イル)アミノ-2-メチルプロピオニトリル (別名シアナジン)	2-(4-chloro-6-ethylamino-1,3,5-triazin-2- yl)amino-2-methylpropionitrile(cyanazine)
132	129558-76-5	4-クロロ-3-エチル-1-メチル-N-[4-(p- ラトリルオキシ)ベンジル]ピラゾール-5-カルボキ サミド(別名トルフェンピラド)	4-chloro-3-ethyl-1-methyl-N-[4-(p- tolyloxy)benzyl]pyrazole-5- carboxamide(tolfenpyrad)

List of Production Environmental  
Impact Substances (5/13)

No.	CAS No.	物質名	Substance
133	51218-45-2	2-クロロ-2'-エチル-N-(2-メトキシ-1-メチルエチル)-6'-メチルアセトアニリド (別名メトラクロロエチレン (別名塩化ビニル))	2-Chloro-2'-ethyl-N-(2-methoxy-1-methylethyl)-6'-methylacetanilide
134	75-01-4	クロロエチレン (別名塩化ビニル)	Vinyl chloride [monomer only]
135	79622-59-6	3-クロロ-N-(3-クロロ-5-トリフルオロメチル-2-ピリジル)-アルファ, アルファ, アルファートリフルオロ-2, 6-ジニトロ-パラトルイジン (別名)	3-Chloro-N-(3-chloro-5-trifluoromethyl-2-pyridyl)- $\alpha$ , $\alpha$ , $\alpha$ -trifluoro-2,6-dinitro-ptoluidine
136	119446-68-3	1-[[2-[2-クロロ-4-(4-クロロフェノキシ)フェニル]-4-メチル-1, 3-ジオキサラン-2-イル]メチル]-1H-1, 2, 4-トリアゾール (別名)	1-[[2-[2-Chloro(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazol
137	611-19-8	1-クロロ-2-(クロロメチル)ベンゼン	1-chloro-2-(chloromethyl)benzene
138	79-11-8	クロロ酢酸	Chloroacetic acid
139	105-39-5	クロロ酢酸エチル	ethyl chloroacetate
140	51218-49-6	2-クロロ-2', 6'-ジエチル-N-(2-プロポキシエチル)アセトアニリド (別名プレチラクロール)	Pretilachlor
141	15972-60-8	2-クロロ-2', 6'-ジエチル-N-(メキシメチル)アセトアニリド (別名アラクロール)	Alachlor
142	97-00-7	1-クロロ-2, 4-ジニトロベンゼン	1-Chloro-2,4-dinitrobenzene
143	7085-19-0	(RS)-2-(4-クロロ-オルト-トリルオキシ)プロピオン酸 (別名メコプロップ)	(RS)-2-(4-chloro-o-tolyloxy)propionic acid(mecoprop)
144	95-49-8	オルト-クロロトルエン	o-Chlorotoluene
145	106-43-4	パラ-クロロトルエン	p-chlorotoluene
146	121-87-9	2-クロロ-4-ニトロアニリン	2-chloro-4-nitroaniline
147	88-73-3	2-クロロニトロベンゼン	2-chloronitrobenzene
148	122-34-9	2-クロロ-4, 6-ビス(エチルアミノ)-1, 3, 5-トリアジン (別名シマジン又はCAT)	Simazine
149	133220-30-1	(RS)-2-[2-(3-クロロフェニル)-2, 3-エポキシプロピル]-2-エチルインダン-1, 3-ジオン (別名インダノファン)	(RS)-2-[2-(3-chlorophenyl)-2,3-epoxypropyl]-2-ethylindane-1,3-dione(indanofan)
150	158237-07-1	4-(2-クロロフェニル)-N-シクロヘキシル-N-エチル-4, 5-ジヒドロ-5-オキソ-1H-テトラゾール-1-カルボキサミド (別名フェントラザミド)	4-(2-chlorophenyl)-N-cyclohexyl-N-ethyl-4,5-dihydro-5-oxo-1H-tetrazole-1-carboxamide(fentrazamide)
151	78587-05-0	(4RS, 5RS)-5-(4-クロロフェニル)-N-シクロヘキシル-4-メチル-2-オキソ-1, 3-チアゾリジン-3-カルボキサミド (別名ヘキシチアゾクス)	(4RS,5RS)-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-1,3-thiazolidine-3-carboxamide(hexythiazox)
152	107534-96-3	(RS)-1-パラ-クロロフェニル-4, 4-ジメチル-3-(1H-1, 2, 4-トリアゾール-1-イルメチル)ペンタン-3-オール (別名テブコナゾール)	(RS)-1-p-chlorophenyl-4,4-dimethyl-3-((1H-1,2,4-triazol-1-ylmethyl)pentan-3-ol(tebuconazole)
153	88671-89-0	2-(4-クロロフェニル)-2-(1H-1, 2, 4-トリアゾール-1-イルメチル)ヘキサニトリル (別名ミ)	2-(4-chlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)hexanenitrile(myclobutanil)
154	114369-43-6	(RS)-4-(4-クロロフェニル)-2-フェニル-2-(1H-1, 2, 4-トリアゾール-1-イルメチル)ブチロニトリル (別名フェンブコナゾール)	(RS)-4-(4-chlorophenyl)-2-phenyl-2-(1H-1,2,4-triazol-1-ylmethyl)butyronitrile(fenbuconazole)
155	95-57-8	オルト-クロロフェノール	o-chlorophenol
156	106-48-9	パラ-クロロフェノール	p-chlorophenol
157	598-78-7	2-クロロプロピオン酸	2-chloropropionic acid
158	107-05-1	3-クロロプロペン (別名塩化アリル)	Allyl chloride
159	99485-76-4	1-(2-クロロベンジル)-3-(1-メチル-1-フェニルエチル)ウレア (別名クミルロン)	1-(2-chlorobenzyl)-3-(1-methyl-1-phenylethyl)urea(cumyluron)
160	108-90-7	クロロベンゼン	Chlorobenzene
161	67-66-3	クロロホルム	Chloroform
162	74-87-3	クロロメタン (別名塩化メチル)	Methyl chloride
163	59-50-7	4-クロロ-3-メチルフェノール	4-chloro-3-methylphenol
164	94-74-6	(4-クロロ-2-メチルフェノキシ)酢酸 (別名MCP又はMCPA)	(4-Chloro-2-methylphenoxy)acetic acid
165	563-47-3	3-クロロ-2-メチル-1-プロペン	3-chloro-2-methyl-1-propene
166	-	コバルト及びその化合物	Cobalt and its compounds
167	111-15-9	酢酸2-エトキシエチル (別名エチレングリコールモノエチルエーテルアセテート)	Ethylene glycol monoethyl ether acetate
168	108-05-4	酢酸ビニル	Vinyl acetate
169	110-49-6	酢酸2-メトキシエチル (別名エチレングリコールモノメチルエーテルアセテート)	Ethylene glycol monomethyl ether acetate
170	90-02-8	サリチルアルデヒド	Salicylaldehyde
171	420-04-2	シアナミド	cyan amide

List of Production Environmental  
Impact Substances (6/13)

No.	CAS No.	物質名	Substance
172	139920-32-4	(RS)-2-シアノ-N-[(R)-1-(2,4-ジクロロフェニル)エチル]-3,3-ジメチルブチラミド(別名ジクロシメット)	(RS)-2-cyano-N-[(R)-1-(2,4-dichlorophenyl)ethyl]-3,3-dimethylbutylamide(diclocymet)
173	66841-25-6	(S)-α-シアノ-3-フェノキシベンジル=(1R,3S)-2,2-ジメチル-3-(1,2,2,2-テトラブromoエチル)シクロプロパンカルボキシラート	(S)-alpha-cyano-3-phenoxybenzyl(1R,3S)-2,2-dimethyl-3-(1,2,2,2-tetrabromoethyl)cyclopropanecarboxylate(tralomethr)
174	39515-41-8	(RS)-α-シアノ-3-フェノキシベンジル=2,2,3,3-テトラメチルシクロプロパンカルボキシラート(別名フェンプロパトリン)	2,2,3,3-tetramethylcyclopropanecarboxylate(fenpropathrin)
175	57966-95-7	トランス-1-(2-シアノ-2-メトキシイミノアセチル)-3-エチルウレア(別名シモキサニル)	trans-1-(2-cyano-2-methoxyiminoacetyl)-3-ethylurea(cymoxanil)
176	615-05-4	2,4-ジアミノアニソール	2,4-diaminoanisole
177	101-80-4	4,4'-ジアミノジフェニルエーテル	4,4'-diaminodiphenyl ether
178	-	無機シアン化合物(錯塩及びシアン酸塩を除く)	Inorganic cyanogen compounds(except complex salts and cyanate)
179	100-37-8	2-(ジエチルアミノ)エタノール	2-(Diethylamino) ethanol
180	29232-93-7	O-2-ジエチルアミノ-6-メチルピリミジン-4-イル=O, O-ジメチルホスホロチオアート(別名ピリミホスメチル)	O-2-diethylamino-6-methylpyrimidin-4-yl O,O-dimethyl phosphorothioate(pirimiphos-methyl)
181	28249-77-6	N,N-ジエチルチオカルバミン酸S-4-クロロベンジル(別名チオベンカルブ又はベンチオカーブ)	Thiobencarb
182	125306-83-4	N,N-ジエチル-3-(2,4,6-トリメチルフェニルスルホニル)-1H-1,2,4-トリアゾール-1-カルボキサミド(別名カフエンストール)	N,N-Diethyl-3-(2,4,6-trimethylphenylsulfonyl)-1H-1,2,4-triazol-1-carboxamide
183	123-91-1	1,4-ジオキサン	1,4-Dioxane
184	646-06-0	1,3-ジオキソラン	1,3-dioxolane
185	15263-53-3	1,3-ジカルバモイルチオ-2-(N,N-ジメチルアミノ)プロパン(別名カルタップ)	1,3-dicarbamoylthio-2-(N,N-dimethylamino)propane(cartap)
186	7696-12-0	シクロヘキサ-1-エン-1,2-ジカルボキシイミドメチル=(1RS)-シス-トランス-2,2-ジメチル-3-(2-メチルプロパ-1-エニル)シクロプロパンカルボキシラート(別名テトラメトリン)	cyclohex-1-ene-1,2-dicarboximidomethyl(1RS)-cis-trans-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate(tetramethrin)
187	108-91-8	シクロヘキシルアミン	Cyclohexylamine
188	17796-82-6	N-(シクロヘキシルチオ)フタルイミド	N-(cyclohexylthio)phthalimide
189	-	ジクロロアニリン	dichloroaniline
190	101-14-4	3,3'-ジクロロ-4,4'-ジアミノジフェニルメタン	3,3'-dichloro-4,4'-diaminodiphenylmethane
191	23950-58-5	3,5-ジクロロ-N-(1,1-ジメチル-2-プロピニル)ベンズアミド(別名プロピザミド)	Propyzamide
192	95-73-8	2,4-ジクロロトルエン	2,4-dichlorotoluene
193	99-54-7	1,2-ジクロロ-4-ニトロベンゼン	1,2-dichloro-4-nitrobenzene
194	89-61-2	1,4-ジクロロ-2-ニトロベンゼン	1,4-Dichloro-2-nitrobenzene
195	36734-19-7	3-(3,5-ジクロロフェニル)-N-イソプロピル-2,4-ジオキソイミダゾリジン-1-カルボキサミド(別名イプロジオン)	3-(3,5-dichlorophenyl)-N-isopropyl-2,4-dioxoimidazolidine-1-carboxamide (iprodione)
196	330-54-1	3-(3,4-ジクロロフェニル)-1,1-ジメチル尿素(別名ジウロン又はDCMU)	3-(3,4-Dichlorophenyl)-1,1-dimethylurea
197	112281-77-3	(RS)-2-(2,4-ジクロロフェニル)-3-(1H-1,2,4-トリアゾール-1-イル)プロピル=1,1,2,2-テトラフルオロエチル=エーテル(別名テトラコナゾール)	(RS)-2-(2,4-dichlorophenyl)-3-(1H-1,2,4-triazol-1-yl)propyl 1,1,2,2-tetrafluoroethyl ether (tetraconazole)
198	60207-90-1	(2RS,4RS)-1-[2-(2,4-ジクロロフェニル)-4-プロピル-1,3-ジオキソラン-2-イルメチル]-1H-1,2,4-トリアゾール及び(2RS,4SR)-1-[2-(2,4-ジクロロフェニル)-4-プロピル-1,3-ジオキソラン-2-イルメチル]-1H-1,2,4-トリアゾールの混合物(別名プロピコナゾール)	mixture of (2RS,4RS)-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole and (2RS,4SR)-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole (propiconazole)
199	153197-14-9	3-[1-(3,5-ジクロロフェニル)-1-メチルエチル]-3,4-ジヒドロ-6-メチル-5-フェニル-2H-1,3-オキサジン-4-オン(別名オキサジクロメホン)	3-[1-(3,5-dichlorophenyl)-1-methylethyl]-3,4-dihydro-6-methyl-5-phenyl-2H-1,3-oxazin-4-one (oxaziclomefone)
200	50471-44-8	(RS)-3-(3,5-ジクロロフェニル)-5-メチル-5-ビニル-1,3-オキサゾリジン-2,4-ジオン(別名ビンクロゾリン)	(RS)-3-(3,5-dichlorophenyl)-5-methyl-5-vinyl-1,3-oxazolidine-2,4-dione (vinclozolin)
201	330-55-2	3-(3,4-ジクロロフェニル)-1-メトキシ-1-メチル尿素(別名リニユロン)	3-(3,4-Dichlorophenyl)-1-methoxy-1-methylurea



List of Production Environmental  
Impact Substances (7/13)

No.	CAS No.	物質名	Substance
202	94-75-7	2,4-ジクロロフェノキシ酢酸(別名2,4-D又は2,4-PA)	2,4-Dichlorophenoxyacetic acid
203	78-87-5	1,2-ジクロロプロパン	1,2-Dichloropropane
204	91-94-1	3,3'-ジクロロベンジジン	3,3'-Dichlorobenzidine
205	-	ジクロロベンゼン	Dichlorobenzene
206	71561-11-0	2-[4-(2,4-ジクロロベンゾイル)-1,3-ジメチル-5-ピラゾリルオキシ]アセトフェノン(別名ピラゾキシフェン)	2-[4-(2,4-Dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyloxy]acetophenone
207	1194-65-6	4-(2,4-ジクロロベンゾイル)-1,3-ジメチル-5-ピラゾリル=4-トルエンルスルホナート(別名ピラ)	4-(2,4-Dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyl 4-toluenesulfonate
208	58011-68-0	2,6-ジクロロベンゾニトリル(別名ジクロベニル又はDBN)	2,6-Dichlorobenzonitrile
209	3347-22-6	2,3-ジシアノ-1,4-ジチアアントラキノン(別名ジチアノン)	2,3-Dicyano-1,4-dithiaanthraquinone
210	101-83-7	N,N-ジシクロヘキシルアミン	N,N-dicyclohexylamine
211	4979-32-2	N,N-ジシクロヘキシル-2-ベンゾチアゾールスルフェニアミド	N,N-dicyclohexyl-2-benzothiazolesulfenamide
212	77-73-6	ジシクロペンタジエン	dicyclopentadiene
213	50512-35-1	1,3-ジチオラン-2-イリデンマロン酸ジイソプロピル(別名イソプロチオラン)	Isoprothiolane
214	17109-49-8	ジチオリン酸O-エチル-S,S-ジフェニル(別名エディフェンホス又はEDDP)	O-ethylS,S-dyphenyl phosphorodithioate
215	298-04-4	ジチオリン酸O,O-ジエチル-S-(2-エチルチオエチル)(別名エチルチオメソ又はジスルホト)	O,O-diethyl-S-2-(ethylthio)ethylphosphorodithioate
216	2310-17-0	ジチオリン酸O,O-ジエチル-S-[(6-クロロ-2,3-ジヒドロ-2-オキソベンゾオキサゾリニル)メチル](別名ホサロン)	O,O-diethyl-S-(6-chloro-2,3-dihydro-2-oxobenzoxazoliny)methyl phosphorodithioate
217	34643-46-4	ジチオリン酸O-2,4-ジクロロフェニル-O-エチル-S-プロピル(別名プロチオホス)	O-2,4-Dichlorophenyl-O-ethyl-S-propyl dithiophosphate
218	950-37-8	ジチオリン酸S-(2,3-ジヒドロ-5-メトキシ-2-オキソ-1,3,4-チアジアゾール-3-イル)メチル-O,O-ジメチル(別名メチダチオン又はDM)	S-(2,3-dihydro-5-methoxy-2-oxo-1,3,4-thiadiazolin-3-yl)methyl O,O-dimethylphosphorodithioate
219	121-75-5	ジチオリン酸O,O-ジメチル-S-1,2-ビス(エトキシカルボニル)エチル(別名マラソン又はマラチオ)	Malathon
220	60-51-5	ジチオリン酸O,O-ジメチル-S-[(N-メチルカルバモイル)メチル](別名ジメトエート)	Dimethoate
221	16090-02-1	ジナトリウム=2,2'-ビニレンビス[5-(4-モルホリノ-6-アニリノ-1,3,5-トリアジン-2-イルアミノ)ベンゼンスルホナート](別名CIフルオレスセント260)	disodium2,2'-vinylenebis[5-(4-morpholino-6-anilino-1,3,5-triazin-2-ylamino)benzenesulfonate](C.I. Fluorescent 260)
222	25321-14-6	ジニトロトルエン	Dinitrotoluene
223	51-28-5	2,4-ジニトロフェノール	2,4-Dinitrophenol
224	1321-74-0	ジビニルベンゼン	divinylbenzene
225	122-39-4	ジフェニルアミン	Diphenylamine
226	101-84-8	ジフェニルエーテル	diphenyl ether
227	102-06-7	1,3-ジフェニルguanidイン	1,3-diphenylguanidine
228	55285-14-8	N-ジブチルアミノチオ-N-メチルカルバミン酸2,3-ジヒドロ-2,2-ジメチル-7-ベンゾ[b]フラニル(別名カルボスルファン)	Carbosulfan
229	128-37-0	2,6-ジ-ターシャリ-ブチル-4-クレゾール	2,6-di-tert-butyl-4-cresol
230	96-76-4	2,4-ジ-ターシャリ-ブチルフェノール	2,4-di-tert-butylphenol
231	124-48-1	ジブロモクロロメタン	dibromochloromethane
232	10222-01-2	2,2-ジブromo-2-シアノアセトアミド	2,2-dibromo-2-cyanoacetamide
233	30560-19-1	(RS)-O,S-ジメチル=アセチルホスホルアミドチオアート(別名アセフェート)	(RS)-O,S-dimethylacetylphosphoramidodithioate (acephate)
234	127-19-5	N,N-ジメチルアセトアミド	N,N-dimethylacetamide
235	95-68-1	2,4-ジメチルアニリン	2,4-dimethylaniline
236	87-62-7	2,6-ジメチルアニリン	2,6-Dimethylaniline
237	121-69-7	N,N-ジメチルアニリン	N,N-dimethylaniline
238	31895-21-3	5-ジメチルアミノ-1,2,3-トリチアン(別名チオシクラム)	5-dimethylamino-1,2,3-trithiane (thiocyclam)
239	124-40-3	ジメチルアミン	dimethylamine
240	624-92-0	ジメチルジスルフィド	dimethyl disulfide
241	-	ジメチルジチオカルバミン酸の水溶性塩	water-soluble salts of dimethyldithiocarbamic acid

List of Production Environmental  
Impact Substances (8/13)

No.	CAS No.	物質名	Substance
242	82560-54-1	2, 2-ジメチル-2, 3-ジヒドロ-1-ベンゾフラン-7-イル=N-[N-(2-エトキシカルボニルエチル)-N-イソプロピルスルフェナモイル]-N-メチルカルバマート(別名ベンフラカルブ)	2,2-dimethyl-2,3-dihydro-1-benzofuran-7-yl N-[N-(2-ethoxycarbonylethyl)-N-isopropylsulfenamoyl]-N-methylcarbamate (benfuracarb)
243	62850-32-2	N, N-ジメチルチオカルバミン酸S-4-フェノキシブチル(別名フェノチオカルブ)	S-4-Phenoxybutyl N,N-dimethylthiocarbamate
244	112-18-5	N, N-ジメチルドデシルアミン	N,N-dimethyldodecylamine
245	1643-20-5	N, N-ジメチルドデシルアミン=N-オキシド	N,N-Dimethyldodecylamine-N-oxide
246	52-68-6	ジメチル=2, 2, 2-トリクロロ-1-ヒドロキシエチルホスホナート(別名トリクロロホン又はDEP)	dimethyl2,2,2-trichloro-1-hydroxyethyl phosphonate
247	57-14-7	1, 1-ジメチルヒドラジン	1,1-dimethylhydrazine
248	1910-42-5	1, 1'-ジメチル-4, 4'-ビピリジニウム=ジクロリド(別名パラコート又はパラコートジクロリド)	1,1'-Dimethyl-4,4'-dipyridinium dichloride
249	91-97-4	3, 3'-ジメチルビフェニル-4, 4'-ジイル=ジイソシアネート	3,3'-dimethylbiphenyl-4,4'-diyl diisocyanate
250	23564-0-8	ジメチル=4, 4'-(オルト-フェニレン)ビス(3-チオアロファナート)(別名チオアファネートメチル)	dimethyl 4,4'-(o-phenylene)bis(3-thioallophanate)(thiophanate-methyl)
251	793-24-8	N-(1, 3-ジメチルブチル)-N'-フェニル-p-パラフェニレンジアミン	N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine
252	119-93-7	3, 3'-ジメチルベンジジン(別名オルトトリジン)	o-Tolidine
253	68-12-2	N, N-ジメチルホルムアミド	N,N-dimethylformamide
254	2597-03-7	2-[(ジメトキシホスフィノチオイル)チオ]-2-フェニル酢酸エチル(別名フェントエート又はPAP)	2-[[dimethoxyphosphinothioyl]thio]-2-phenyl acetate ethyl (phenthoate;PAP)
255	7726-95-6	臭素	bromine
256	-	臭素酸の水溶性塩	water-soluble salts of bromic acid
257	3861-47-0	3, 5-ジヨード-4-オクタノイルオキシベンゾニトリル(別名アイオキシニル)	3,5-Diiodo-4-octanoyloxybenzotrile
258	-	水銀及びその化合物	Mercury and its compounds
259	61788-32-7	水素化テルフェニル	hydrogenated terphenyl
260	-	有機スズ化合物	Organic tin compounds
261	100-42-5	スチレン	Styrene [monomer only]
262	4016-24-4	2-スルホヘキサデカン酸-1-メチルエステルナトリウム塩	sodium salt of 2-sulfohexadecanoic acid 1-methyl ester
263	-	セレン及びその化合物	Selenium and its compounds
264	-	ダイオキシン類	dioxins
265	533-74-4	2-チオキソ-3, 5-ジメチルテトラヒドロ-2H-1, 3, 5-チアジジン(別名ダゾメット)	2-Thio-3,5-dimethyltetrahydro-1,3,5-thiadiazine
266	62-56-6	チオ尿素	Thiourea
267	108-98-5	チオフェノール	Thiophenol
268	77458-01-6	(89784-60-1)チオリン酸O-1-(4-クロロフェニル)-4-ピラゾリル-O-エチル-S-プロピル(別名ピラクロホス)	Pyraclafos (including both optical isomers)
269	333-41-5	チオリン酸O, O-ジエチル-O-(2-イソプロピル-6-メチル-4-ピリジニル)(別名ダイアジノ)	Diazinon
270	2921-88-2	チオリン酸O, O-ジエチル-O-(3, 5, 6-トリクロロ-2-ピリジニル)(別名クロルピリホス)	Chlorpyrifos
271	18854-01-8	チオリン酸O, O-ジエチル-O-(5-フェニル-3-イソキサゾリル)(別名イソキサチオン)	Isoxathone
272	122-14-5	チオリン酸O, O-ジメチル-O-(3-メチル-4-ニトロフェニル)(別名フェニトロチオン又はMEP)	Fenitrothion
273	55-38-9	チオリン酸O, O-ジメチル-O-(3-メチル-4-メチルチオフェニル)(別名フェンチオン又はMPP)	O, O-dimethyl O-3-methyl-4-(methylthio)phenyl phosphorothioate(fenthion;MPP)
274	41198-08-7	チオリン酸O-4-ブromo-2-クロロフェニル-O-エチル-S-プロピル(別名プロフェノホス)	O-4-Bromo-2-chlorophenyl-O-ethyl-Spropyl thiophosphate
275	26087-47-8	チオリン酸S-ベンジル-O, O-ジイソプロピル(別名イプロベンホス又はIBP)	Iprobenphos
276	1163-19-5	デカブromジフェニルエーテル	Decabromodiphenyl ether
277	334-48-5	デカン酸	decanoic acid
278	112-30-1	デシルアルコール(別名デカノール)	decyl alcohol(decanol)
279	100-97-0	1, 3, 5, 7-テトラアザトリシクロ[3.3.1.1(3.7)]デカン(別名ヘキサメチレンテトラミン)	1,3,5,7-Tetrazatricyclo[3.3.1.1,3,7]decane

Appendix 2  
List of Production Environmental  
Impact Substances (9/13)

Green Procurement Standard

No.	CAS No.	物質名	Substance
280	97-77-8	テトラエチルチウラムジスルフィド (別名ジスルフィラム)	tetraethylthiuram disulfide (disulfiram)
281	1897-45-6	テトラクロロイソフタロニトリル (別名クロロタロニル又はTPN)	Chlorothalonil
282	27355-22-2	4, 5, 6, 7-テトラクロロイソベンゾフラン-1(3H)-オン (別名フサライド)	4,5,6,7-tetrachloroisobenzofuran-1(3H)-one(phthalide)
283	118-75-2	2, 3, 5, 6-テトラクロロ-p-ベンゾキノン	2,3,5,6-tetrachloro-p-benzoquinone
284	11070-44-3	テトラヒドロメチル無水フタル酸	Tetrahydromethylphthalic anhydride
285	79538-32-2	2, 3, 5, 6-テトラフルオロ-4-メチルベンジル=(Z)-3-(2-クロロ-3, 3, 3-トリフルオロ-1-プロペニル)-2, 2-ジメチルシクロプロパンカルボキシラート (別名テフルトリン)	2,3,5,6-tetrafluoro-4-methylbenzyl(Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate (tefluthrin)
286	59669-26-0	3, 7, 9, 13-テトラメチル-5, 11-ジオキサ-2, 8, 14-トリチア-4, 7, 9, 12-テトラアザペンタデカ-3, 12-ジエン-6, 10-ジオン (別名チオジカルブ)	3,7,9,13-tetramethyl-5,11-dioxa-2,8,14-trithia-4,7,9,12-tetraazapentadeca-3,12-diene-6,10-dione (thiodicarb)
287	137-26-8	テトラメチルチウラムジスルフィド (別名チウラム又はチラム)	Tetramethylthiuram disulfide (thiram)
288	505-32-8	3, 7, 11, 15-テトラメチルヘキサデカ-1-エン-3-オール (別名イソフィトール)	3,7,11,15-tetramethylhexadec-1-en-3-ol(isophytol)
289	100-21-0	テレフタル酸	Terephthalic acid
290	120-61-6	テレフタル酸ジメチル	dimethyl terephthalate
291	-	銅水溶性塩 (錯塩を除く)	copper salts (water-soluble, except complex salts)
292	112-53-8	1-ドデカノール (別名ノルマルドデシルアルコール)	1-dodecanol(n-dodecyl alcohol)
293	25103-58-6	ターシャリドデカンチオール	tert-dodecanethiol
294	151-21-3	ドデシル硫酸ナトリウム	sodium dodecyl sulfate
295	112-57-2	3, 6, 9-トリアザウンデカン-1, 11-ジアミン (別名テトラエチレンペンタミン)	3,6,9-triazaundecane-1,11-diamine(tetraethylenepentamine)
296	121-44-8	トリエチルアミン	triethylamine
297	112-24-3	トリエチレンテトラミン	triethylenetetramine
298	76-03-9	トリクロロ酢酸	trichloroacetic acid
299	108-77-0	2, 4, 6-トリクロロ-1, 3, 5-トリアジン	2,4,6-trichloro-1,3,5-triazine
300	76-06-2	トリクロロニトロメタン (別名クロロピクリン)	Chloropicrin
301	55335-06-3	(3, 5, 6-トリクロロ-2-ピリジル)オキシ酢酸 (別名トリクロピル)	(3,5,6-Trichloro-2-pyridyl)oxyacetic acid
302	88-06-2	2, 4, 6-トリクロロフェノール	2,4,6-trichlorophenol
303	96-18-4	1, 2, 3-トリクロロプロパン	1,2,3-trichloropropane
304	-	トリクロロベンゼン	trichlorobenzene
305	2451-62-9	1, 3, 5-トリス(2, 3-エポキシプロピル)-1, 3, 5-トリアジン-2, 4, 6(1H, 3H, 5H)-トリオン	1,3,5-Tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione
306	102-82-9	トリブチルアミン	tributylamine
307	1582-09-8	アルファ・アルファ・アルファトリフルオロ-2, 6-ジニトロ-N, N-ジプロピル-パラトルイジン (別名トリフルラリン)	Trifluralin
308	118-79-6	2, 4, 6-トリブロモフェノール	2,4,6-Tribromophenol
309	3452-97-9	3, 5, 5-トリメチル-1-ヘキサノール	3,5,5-Trimethyl-1-hexanol
310	95-63-6	1, 2, 4-トリメチルベンゼン	1,2,4-trimethylbenzene
311	108-67-8	1, 3, 5-トリメチルベンゼン	1,3,5-Trimethylbenzene
312	26471-62-5	トリレンジイソシアネート	Tolylene diisocyanate
313	-	トルイジン	Toluidine
314	108-88-3	トルエン	Toluene
315	25376-45-8	トルエンジアミン	toluenediamine
316	91-20-3	ナフタレン	naphthalene
317	3173-72-6	1, 5-ナフタレンジイル=ジイソシアネート	1,5-naphthalenediyl diisocyanate
318	7439-92-1	鉛	Lead
319	-	鉛化合物	lead compounds
320	13048-33-4	二アクリル酸ヘキサメチレン	hexamethylene diacrylate
321	7699-43-6	二塩酸化ジルコニウム	zirconium dichloride oxide
322	7440-02-0	ニッケル	Nickel
323	-	ニッケル化合物	Nickel compounds

List of Production Environmental  
Impact Substances (10/13)

No.	CAS No.	物質名	Substance
324	139-13-9	ニトリロ三酢酸	Nitrirotriactic acid (NTA)
325	91-23-6	オルト-ニトロアニソール	o-nitroanisole
326	88-74-4	オルト-ニトロアニリン	o-nitroaniline
327	55-63-0	ニトログリセリン	Nitroglycerine
328	100-00-5	パラ-ニトロクロロベンゼン	p-nitrochlorobenzene
329	88-72-2	オルト-ニトロトルエン	o-nitrotoluene
330	98-95-3	ニトロベンゼン	Nitrobenzenes
331	75-52-5	ニトロメタン	nitromethane
332	75-15-0	二硫化炭素	Carbon disulfide
333	143-08-8	1-ノナンオール(別名ノルマル-ノニルアルコール)	1-nonanol(n-nonyl alcohol)
334	25154-52-3	ノニルフェノール	Nonylphenol
335	-	バナジウム化合物	vanadium compounds
336	3618-72-2	5'-[N,N-ビス(2-アセチルオキシエチル)アミノ]-2'-(2-ブロモ-4,6-ジニトロフェニルアゾ)-4'-メトキシアセトアニリド	5'-[N,N-bis(2-acetyloxyethyl)amino]-2'-(2-bromo-4,6-dinitrophenylazo)-4'-methoxyacetanilide
337	1014-70-6	2,4-ビス(エチルアミノ)-6-メチルチオ-1,3,5-トリアジン(別名シメトリン)	Simetryn
338	101-90-6	1,3-ビス[(2,3-エポキシプロピル)オキシ]ベンゼン	1,3-bis[(2,3-epoxypropyl)oxy]benzene
339	10380-28-6	ビス(8-キノリノラト)銅(別名オキシ銅又は有機)	Oxine copper
340	74115-24-5	3,6-ビス(2-クロロフェニル)-1,2,4,5-テトラジン(別名クロフェンチジン)	3,6-Bis(2-chlorophenyl)-1,2,4,5-tetrazine
341	782-74-1	1,2-ビス(2-クロロフェニル)ヒドラジン	1,2-bis(2-chlorophenyl)hydrazine
342	137-30-4	ビス(N,N-ジメチルジチオカルバミン酸)亜鉛(別名ジラム)	Ziram
343	64440-88-6	ビス(N,N-ジメチルジチオカルバミン酸)N,N'-エチレンビス(チオカルバモイルチオ亜鉛)(別名ポリカーバメート)	N,N-Ethylenebis(thiocarbamoylthiozinc) bis(N,N-dimethyldithiocarbamate)
344	80-43-3	ビス(1-メチル-1-フェニルエチル)ペルオキシ	bis(1-methyl-1-phenylethyl) peroxide
345	95465-99-9	S,S-ビス(1-メチルプロピル)O-エチルホスホロジチオアート(別名カズサホス)	S,S-bis(1-methylpropyl)O-ethyl phosphorodithioate(cadusafos)
346	-	砒素及びその無機化合物	Arsenic and its inorganic compounds
347	302-01-2	ヒドラジン	Hydrazine
348	99-76-3	4-ヒドロキシ安息香酸メチル	methyl 4-hydroxybenzoate
349	103-90-2	N-(4-ヒドロキシフェニル)アセトアミド	N-(4-hydroxyphenyl)acetamide
350	123-31-9	ヒドロキノン	Hydroquinone
351	100-40-3	4-ビニル-1-シクロヘキセン	4-Vinyl-1-cyclohexene
352	100-69-6	2-ビニルピリジン	2-Vinylpyridine
353	88-12-0	N-ビニル-2-ピロリドン	N-vinyl-2-pyrrolidone
354	92-52-4	ビフェニル	biphenyl
355	110-85-0	ピペラジン	Piperazine
356	110-86-1	ピリジン	Pyridine
357	120-80-9	ピロカテコール(別名カテコール)	Pyrocatechol
358	96-09-3	フェニルオキシラン	phenyloxirane
359	100-63-0	フェニルヒドラジン	phenylhydrazine
360	90-43-7	2-フェニルフェノール	2-phenylphenol
361	941-69-5	N-フェニルマレイミド	N-phenylmaleimide
362	-	フェニレンジアミン	Phenylenediamine
363	108-95-2	フェノール	Phenol
364	52645-53-1	3-フェノキシベンジル=3-(2,2-ジクロロビニル)-2,2-ジメチルシクロプロパンカルボキシラート(別名ペルメトリン)	Permethrin
365	106-99-0	1,3-ブタジエン	1,3-butadiene
366	131-17-9	フタル酸ジアリル	diallyl phthalate
367	84-66-2	フタル酸ジエチル	diethyl phthalate
368	84-74-2	フタル酸ジ-n-ブチル	Di-n-butyl phthalate
369	117-81-7	フタル酸ビス(2-エチルヘキシル)	Bis(2-ethylhexyl) phthalate
370	85-68-7	フタル酸ノルマル-ブチル=ベンジル	n-butyl benzyl phthalate
371	69327-76-0	2-ターシャリ-ブチルイミノ-3-イソプロピル-5-フェニルテトラヒドロ-4H-1,3,5-チアジジン-4-オン(別名ブプロフェジン)	2-tert-Butylimino-3-isopropyl-5-phenyltetrahydro-4H-1,3,5-thiadiazin-4-one
372	112410-23-8	N-ターシャリ-ブチル-N'-(4-エチルベンゾイル)-3,5-ジメチルベンゾヒドラジド(別名テブフェ)	N-tert-Butyl-N'-(4-ethylbenzoyl)-3,5-dimethylbenzohydrazide
373	2426-08-6	ノルマル-ブチル-2,3-エポキシプロピルエーテ	n-butyl-2,3-epoxypropyl ether

List of Production Environmental  
Impact Substances (11/13)

No.	CAS No.	物質名	Substance
374	17804-35-2	N-[1-(N-ホルマル-ブチルカルバモイル)-1H-2-ベンゾイミダゾリル]カルバミン酸メチル (別	Benomyl
375	122008-85-9	ブチル=(R)-2-[4-(4-シアノ-2-フルオロフェノキシ)フェノキシ]プロピオナート (別名シハロホップブチル)	Butyl (R)-2-[4-(4-cyano-2-fluorophenoxy)phenoxy]propionate
376	80060-09-9	1-ターシャリーブチル-3-(2,6-ジイソプロピル-4-フェノキシフェニル)チオ尿素 (別名ジアフェン	1-tert-Butyl-3-(2,6-diisopropyl-4-phenoxyphenyl)thiourea(diafenthuron)
377	19666-30-9	5-ターシャリーブチル-3-(2,4-ジクロロ-5-イソプロポキシフェニル)-1,3,4-オキサジアゾール-2(3H)-オン (別名オキサジアゾン)	5-tert-butyl-3-(2,4-dichloro-5-isopropoxyphenyl)-1,3,4-oxadiazol-2(3H)-one(oxadiazon)
378	134098-61-6	ターシャリーブチル=4-[[[1,3-ジメチル-5-フェノキシ-4-ピラゾリル]メチリデン]アミノオキシ]メチル]ベンゾアート (別名フェンピロキシメート)	Tert-butyl4-[[[1,3-dimethyl-5-phenoxy-4-pyrazolyl)methylene]aminomethyl]benzoate
379	25013-16-5	ブチルヒドロキシアニソール (別名BHA)	Butylhydroxyanisole(BHA)
380	75-91-2	ターシャリーブチル=ヒドロペルオキシド	tert-butyl hydroperoxide
381	89-72-5	オルト-セカンダリーブチルフェノール	o-sec-butylphenol
382	98-54-4	4-ターシャリーブチルフェノール	4-tert-butylphenol
383	2312-35-8	2-(4-ターシャリーブチルフェノキシ)シクロヘキシル=2-プロピニル=スルフィット (別名プロパルギット又はBPPS)	2-(4-tert-Butylphenoxy) cyclohexyl2-propynyl sulfite
384	96489-71-3	2-ターシャリーブチル-5-(4-ターシャリーブチルベンジルチオ)-4-クロロ-3(2H)-ピリダジノン (別名ピリダベン)	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloro-3(2H)-pyridazinone
385	119168-77-3	N-(4-ターシャリーブチルベンジル)-4-クロロ-3-エチル-1-メチルピラゾール-5-カルボキサミド (別名テブフェンピラド)	Tebufenpyrad
386	95-31-8	N-(ターシャリーブチル)-2-ベンゾチアゾールスルフェンアミド	N-(tert-Butyl)-2-benzothiazolesulfenamide
387	88-60-8	2-ターシャリーブチル-5-メチルフェノール	2-tert-butyl-5-methylphenol
388	-	ふっ化水素及びその水溶性塩	Hydrogen fluoride and its salts(water-soluble)
389	4170-30-3	2-ブテナール	2-butenal
390	23184-66-9	N-ブトキシメチル-2-クロロ-2',6'-ジエチルアセトアニリド (別名ブタクロール)	N-butoxymethyl-2-chloro-2',6'-diethylacetanilide(butachlor)
391	110-00-9	フラン	furan
392	12071-83-9	N,N'-プロピレンビス(ジチオカルバミン酸)と亜鉛の重合体 (別名プロピネブ)	Polymer of N,N'-propylenebis (dithiocarbamate) and zinc
393	107-19-7	2-プロピン-1-オール	2-propyn-1-ol
394	75-27-4	ブロモジクロロメタン	Bromodichloromethane
395	314-40-9	5-ブロモ-3-セカンダリーブチル-6-メチル-1,2,3,4-テトラヒドロピリミジン-2,4-ジオン (別名プロマシル)	5-bromo-3-sec-butyl-6-methyl-1,2,3,4-tetrahydropyrimidine-2,4-dione(bromacil)
396	106-94-5	1-ブロモプロパン	1-bromopropane
397	75-26-3	2-ブロモプロパン	2-Bromopropane
398	13356-08-6	ヘキサキス(2-メチル-2-フェニルプロピル)ジスタノキサン (別名酸化フェンブタズ)	Fenbutatin oxide
399	115-29-7	6,7,8,9,10,10-ヘキサクロロ-1,5,5a,6,9,9a-ヘキサヒドロ-6,9-メタノ-2,4,3-ベンゾジオキサチエピン=3-オキシド (別名エンドスルファン又はベンゾエピン)	6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepine 3-oxide
400	112-02-7	ヘキサデシルトリメチルアンモニウムクロリド	hexadecyltrimethylammonium chloride
401	124-09-4	ヘキサメチレンジアミン	Hexamethylenediamine
402	822-06-0	ヘキサメチレンジアミン	Hexamethylene diisocyanate
403	110-54-3	ホルマル-ヘキサン	n-hexane
404	135-19-3	ベタナフトール	betanaphthol
405	-	ベリリウム及びその化合物	Beryllium and its compounds
406	-	ペルオキシ二硫酸の水溶性塩	water-soluble salts of peroxodisulfuricacid
407	1763-23-1	ペルフルオロ(オクタン-1-スルホン酸) (別名PF)	perfluoro(octane-1-sulfonic acid)(PFOS)
408	98-07-7	ベンジリジニ=トリクロリド	Benzylidene trichloride
409	100-44-7	ベンジル=クロリド (別名塩化ベンジル)	Benzyl chloride
410	100-52-7	ベンズアルデヒド	Benzaldehyde
411	552-30-7	1,2,4-ベンゼントリカルボン酸1,2-無水物	1,2,4-Benzenetricarboxylic acid1,2-anhydride
412	73250-68-7	2-(2-ベンゾチアゾリルオキシ)-N-メチルアセトアニリド (別名メフェナセト)	2-(2-Benzothiazolyloxy)-Nmethylacetanilide
413	119-61-9	ベンゾフェノン	benzophenone
414	87-86-5	ペンタクロロフェノール	Pentachlorophenol

List of Production Environmental  
Impact Substances (12/13)

No.	CAS No.	物質名	Substance
415	-	ほう素化合物	Boron compounds
416	-	ポリ(オキシエチレン)=アルキルエーテル(アルキル基の炭素数が12から15までのもの及びその混合物)	Poly(oxyethylene) alkyl ether(C=12-15)
417	9036-19-5	ポリ(オキシエチレン)=オクチルフェニルエーテル	Poly(oxyethylene) octylphenyl ether
418	9004-82-4	ポリ(オキシエチレン)=ドデシルエーテル硫酸エステルナトリウム	sodium poly(oxyethylene) dodecylether sulfate
419	9016-45-9	ポリ(オキシエチレン)=ノニルフェニルエーテル	Poly(oxyethylene) nonylphenyl ether
420	50-00-0	ホルムアルデヒド	Formaldehyde
421	-	マンガン及びその化合物	Manganese and its compounds
422	85-44-9	無水フタル酸	Phthalic anhydride
423	108-31-6	無水マレイン酸	Maleic anhydride
424	79-41-4	メタクリル酸	Methacrylic acid
425	688-84-6	メタクリル酸2-エチルヘキシル	2-Ethylhexyl methacrylate
426	106-91-2	メタクリル酸2, 3-エポキシプロピル	2,3-epoxypropyl methacrylate
427	2867-47-2	メタクリル酸2-(ジメチルアミノ)エチル	2-(Dimethylamino) ethyl methacrylate
428	97-88-1	メタクリル酸ノルマルブチル	n-Butyl methacrylate
429	80-62-6	メタクリル酸メチル	Methyl methacrylate
430	674-82-8	4-メチリデンオキセタン-2-オン	4-methylideneoxetan-2-one
431	89269-64-7	(Z)-2'-メチルアセトフェノン=4, 6-ジメチル-2-ピリミジンニルヒドラゾン(別名フェリムゾン)	(z)-2'-Methylacetophenone4,6-dimethyl-2-pyrimidinylhydrazone
432	74-89-5	メチルアミン	methylamine
433	556-61-6	メチル=イソチオシアネート	Methyl isocyanate
434	2631-40-5	N-メチルカルバミン酸2-イソプロピルフェニル(別名イソプロカルブ又はMIPC)	2-Isopropylphenyl N-methylcarbamate
435	1563-66-2	N-メチルカルバミン酸2, 3-ジヒドロ-2, 2-ジメチル-7-ベンゾ[b]フラニル(別名カルボフラン)	Carbofuran
436	63-25-2	N-メチルカルバミン酸1-ナフチル(別名カルバリル又はNAC)	1-naphthyl N-methylcarbamate
437	3766-81-2	N-メチルカルバミン酸2-セカンダリーブチルフェニル(別名フェノブカルブ又はBPMC)	2-sec-butylphenyl N-methylcarbamate
438	100784-20-1	メチル=3-クロロ-5-(4, 6-ジメトキシ-2-ピリミジンニルカルバモイルスルファモイル)-1-メチルピラゾール-4-カルボキシラート(別名ハロスルフロ)	Methyl 3-chloro-5-(4,6-dimethoxy-2-pyrimidinylcarbamoylsulfamoyl)-1-methylpyrazole-4-carboxylate
439	173584-44-6	メチル(S)-7-クロロ-2, 3, 4a, 5-テトラヒドロ-2-[メトキシカルボニル(4-トリフルオロメトキシフェニル)カルバモイル]インデノ[1, 2-e][1, 3, 4]オキサジアジン-4a-カルボキシラート(別名イメチル(E)-2-[2-[6-(2-シアノフェノキシ)ピリミジン-4-イルオキシ]フェニル]-3-メトキシアクリラート(別名アゾキシストロビン)	methyl(S)-7-chloro-2,3,4a,5-tetrahydro-2-[methoxycarbonyl(4-trifluoromethoxyphenyl)carbamoyl]indeno[1,2-e][1,3,4]oxadiazine-4a-carboxylate(indoxacarb)
440	131860-33-8	メチル(E)-2-[2-[6-(2-シアノフェノキシ)ピリミジン-4-イルオキシ]フェニル]-3-メトキシアクリラート(別名アゾキシストロビン)	methyl(E)-2-[2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate(azoxystrobin)
441	33089-61-1	3-メチル-1, 5-ジ(2, 4-キシリル)-1, 3, 5-トリアザペンタ-1, 4-ジエン(別名アミトラズ)	3-Methyl-1,5-di(2,4-xylyl)-1,3,5-triazapenta-1,4-diene
442	144-54-7	N-メチルジチオカルバミン酸(別名カーバム)	N-Methyldithiocarbamic acid
443	23135-22-0	メチル-N', N'-ジメチル-N-[(メチルカルバモイル)オキシ]-1-チオオキサミデート(別名オキサミル)	methyl-N',N'-dimethyl-N-[(methylcarbamoyl)oxy]-1-thiooxamimidate(oxamyl)
444	136191-64-5	メチル=2-(4, 6-ジメトキシ-2-ピリミジンニルオキシ)-6-[1-(メトキシイミノ)エチル]ベンゾアート(別名ピリミノバックメチル)	methyl2-(4,6-dimethoxy-2-pyrimidinylloxy)-6-[1-(methoxyimino)ethyl]benzoate(pyriminobac-methyl)
445	98-83-9	アルファ-メチルstyレン	α-Methylstyrene
446	3268-49-3	3-メチルチオプロパナール	3-methylthiopropional
447	-	メチルナフタレン	methylnaphthalene
448	108-99-6	3-メチルピリジン	3-Methylpyridine
449	80-15-9	1-メチル-1-フェニルエチル=ヒドロペルオキシ	1-methyl-1-phenylethyl hydroperoxide
450	88-85-7	2-(1-メチルプロピル)-4, 6-ジニトロフェノール	2-(1-methylethoxy)-4,6-dinitrophenol
451	55814-41-0	2-メチル-N-[3-(1-メチルエトキシ)フェニル]ベンズアミド(別名メプロニル)	2-methyl-N-[3-(1-methylethoxy)phenyl]benzamide(mepronil)
452	16752-77-5	S-メチル-N-(メチルカルバモイルオキシ)チオアセトイミデート(別名メソミル)	S-methyl-N-(methylcarbamovloxy)thioacetimidate(methomyl)
453	141517-21-7	メチル(E)-メトキシイミノ-(2-[[[(E)-1-[3-(トリフルオロメチル)フェニル]エチリデン]アミノ]オキシ]メチル]フェニル)アセタート(別名トリフロ)	methyl(E)-methoxyimino-[2-[[[(E)-1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]phenyl]acetate(trifloxystrobin)
454	143390-89-0	メチル(E)-メトキシイミノ[2-(オルト-トリルオキシメチル)フェニル]アセタート(別名クレソキシムメチ)	methyl(E)-methoxyimino[2-(o-tolylloxymethyl)phenyl]acetate(kresoxim-methyl)
455	101-77-9	4, 4'-メチレンジアニリン	4,4'-Methylenedianiline

**Appendix 2**  
**List of Production Environmental**  
**Impact Substances (13/13)**

No.	CAS No.	物質名	Substance
456	5124-30-1	メチレンビス(4,1-シクロヘキシレン)=ジイソシア	Methylenebis(4,1-cyclohexylene)diisocyanate
457	101-68-8	メチレンビス(4,1-フェニレン)=ジイソシアネート	methylenebis(4,1-cyclohexylene)diisocyanate
458	13684-63-4	3-メトキシカルボニルアミノフェニル=3'-メチル カルバニラート(別名フェンメディファム)	3-methoxycarbonylamino phenyl 3'- methylcarbanilate(phenmedipham)
459	88678-67-5	N-(6-メトキシ-2-ピリジル)-N-メチルチオカ ルバミン酸O-3-ターシャリーブチルフェニル(別 名ピリブチカルブ)	Pyributicarb
460	120-71-8	2-メトキシ-5-メチルアニリン	2-methoxy-5-methylaniline
461	149-30-4	2-メルカプトベンゾチアゾール	2-mercaptobenzothiazole
462	-	モリブデン及びその化合物	Molybdenum and its compounds
463	95-32-9	2-(モルホリノジチオ)ベンゾチアゾール	2-(morpholinodithio)benzothiazole
464	110-91-8	モルホリン	morpholine
465	20859-73-8	りん化アルミニウム	aluminium phosphide
466	62-73-7	りん酸ジメチル=2,2-ジクロロビニル(別名ジクロ ルボス又はDDVP)	Dichlorvos
467	78-42-2	りん酸トリス(2-エチルヘキシル)	tris(2-ethylhexyl) phosphate
468	115-96-8	りん酸トリス(2-クロロエチル)	Tris(2-chloroethyl) phosphate
469	1330-78-5	りん酸トリトリル	tritolyl phosphate
470	115-86-6	りん酸トリフェニル	triphenyl phosphate
471	126-73-8	りん酸トリ-n-ノルマルブチル	Tri-n-butyl phosphate

注意 Note

(1) 事業活動に伴う非意図的生成物質の発生

塩素分を含む廃棄物を事業所内で焼却処理している場合、ダイオキシンを発生(非意図的生成物質)して  
いるとみなし、化学物質の使用とみなします。

Unintentional chemical substances caused by corporate activities

If your company incinerates waste with chlorine within the plant, Canon regards that dioxin(uninten  
tional chemical substance) is generated and that your company uses chemical substances.

(2) 混合物等の使用

対象化学物質を含むことが表示または製品安全性データシート(MSDS)などにより明らかな混合物は、  
成分含有量にかかわらず使用とみなします。

Handling of mixture

When it is clear by material safety data sheet (MSDS) or other means that certain mixture is composed of the listed  
chemical substances, then regardless of the content, Canon regards that they are used.

(3) 化学物質使用の適用除外

以下の形態で化学物質が取り扱われている場合は、化学物質の使用とみなしません。

- ① 含まれる化学物質が無害な形態になっている合金など
- ② 使用している工業用水や大気中に含まれている成分
- ③ 購入してそのまま使用している装置に内蔵されている化学物質

Exemption of use of chemical substances

When chemical substances are handled in the following cases, Canon does not regard that chemical substances are used.

- (1) Chemical substances contained in alloys etc., in non-toxic forms
- (2) Chemical substances contained in industrial water or air constituent
- (3) Chemical substance which is used hermetically in the purchased device and not to be supplemented.  
(e.g., refrigerant of refrigerator)

## Instances of PFOS compounds &lt;96 Substances List&gt;

## Appendix 3

Nº	CAS Nº	PFOS related substance
1	307-35-7	1-Octanesulphonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-
2	376-14-7	2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester
3	383-07-3	2-Propenoic acid, 2-[butyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester
4	423-82-5	2-Propenoic acid, 2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester
5	423-86-9	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-2-propenyl-
6	754-91-6	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-
7	1652-63-7	1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulphonyl]amino]-N,N,N-trimethyl-, iodide
8	1691-99-2	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-
9	1763-23-1	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-
10	1869-77-8	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]-, ethyl ester
11	2250-98-8	1-Octanesulphonamide, N,N',N''- [phosphinylidynetris(oxy-2,1-ethanediyl)]tris[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-
12	2263-09-4	1-Octanesulphonamide, N-butyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-
13	2795-39-3	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, potassium salt
14	2991-50-6	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]-
15	2991-51-7	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]-, potassium salt
16	3820-83-5	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[2-(phosphonoxy)ethyl]-
17	3871-50-9	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]-, sodium salt
18	4151-50-2	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-
19	13417-01-1	1-Octanesulphonamide, N-[3-(dimethylamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-
20	14650-24-9	2-Propenoic acid, 2-methyl-, 2-[[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl ester
21	24448-09-7	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-N-methyl-
22	24924-36-5	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-2-propenyl-
23	25268-77-3	2-Propenoic acid, 2-[[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl ester
24	29081-56-9	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt
25	29117-08-6	Poly(oxy-1,2-ethanediyl), .alpha.-[2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl]-.omega.-hydroxy
26	29457-72-5	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, lithium salt
27	30295-51-3	1-Octanesulphonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-
28	30381-98-7	1-Octanesulphonamide, N,N'-[phosphinocobis(oxy-2,1-ethanediyl)]bis[N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, ammonium salt
29	31506-32-8	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-
30	38006-74-5	1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulphonyl]amino]-N,N',N''-trimethyl-, chloride
31	50598-29-3	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(phenylmethyl)-
32	52550-45-5	Poly(oxy-1,2-ethanediyl), a-[2-[[[(heptadecafluorooctyl)sulphonyl]propylamino]ethyl]-? -hydroxy-
33	56773-42-3	Ethanaminium, N,N',N''-triethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulphonic acid (1:1)
34	57589-85-2	Benzoic acid, 2,3,4,5-tetrachloro-6-[[[3- [[[(heptadecafluorooctyl)sulphonyl]oxy]phenyl]amino]carbonyl]-, monopotassium salt
35	58920-31-3	2-Propenoic acid, 4-[[[(heptadecafluorooctyl)sulphonyl]methylamino]butyl ester
36	61577-14-8	2-Propenoic acid, 2-methyl-, 4-[[[(heptadecafluorooctyl)sulphonyl]methylamino]butyl ester
37	61660-12-6	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[3-(trimethoxysilyl)propyl]-
38	67939-42-8	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[3-(trichlorosilyl)propyl]-
39	67969-69-1	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-[2-(phosphonoxy)ethyl]-, diammonium salt
40	67939-88-2	1-Octanesulphonamide, N-[3-(dimethylamino)propyl]- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, monohydrochloride
41	68081-83-4	Carbamic acid, (4-methyl-1,3-phenylene)bis-, bis[2-[ethyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl] ester
42	68298-11-3	1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulphonyl](3-sulphopropyl)amino]-N-(2-hydroxyethyl)-N,N-dimethyl-, hydroxide, inner salt
43	68329-56-6	2-Propenoic acid, eicosyl ester, polymer with 2-[[[(heptadecafluorooctyl)sulphonyl] methylamino]ethyl 2-propenoate, hexadecyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-propenoate, 2[methyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl
44	68239-73-6	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(4-hydroxybutyl)-N-methyl-
45	68310-75-8	1-Propanaminium, 3-[[[(heptadecafluorooctyl)sulphonyl]amino]-N,N',N''-trimethyl-, iodide, ammonium salt
46	68541-80-0	2-Propenoic acid, polymer with 2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate and octadecyl 2-propenoate
47	68555-90-8	2-Propenoic acid, butyl ester, polymer with 2-[[[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl 2-propenoate, 2-[methyl[(



№	CAS №	PFOS related substance
48	68555-91-9	2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester, polymer with 2-[ethyl[(nonafluorobutyl)sulphonyl]amino] ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(heptadecafluorooctyl)sulphonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate.
49	68555-92-0	2-Propenoic acid, 2-methyl-, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate.
50	68608-14-0	Sulphonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 1,1'-methylenebis[4-isocyanatobenzene]
51	68649-26-3	1-Octanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-, reaction products with N-ethyl-1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-1-butanesulphonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro
52	68867-60-7	2-Propenoic acid, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl ester, polymer with 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl 2-propenoate, 2-[methyl[(tridecafluoroheptyl)sulphonyl]amino]ethyl 2-propenoate.
53	68877-32-7	2-Propenoic acid, 2-methyl-, 2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl ester, polymer with 2-[ethyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(tridecafluoroheptyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate.
54	68891-96-3	Chromium, diaquatetrachloro[.mu.-[N-ethyl-N-[(heptadecafluorooctyl)sulphonyl] glycinato-.kappa.O:.kappa.O']-.mu.-hydroxybis(2-methylpropano)]di-
55	68909-15-9	2-Propenoic acid, eicosyl ester, polymers with branched octylacrylate, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl acrylate, 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl acrylate, 2-[methyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl acrylate.
56	68958-61-2	Poly(oxy-1,2-ethanediy), .alpha.-[2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl]-.omega.-methoxy-
57	70225-14-8	1-Octanesulphonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)
58	70776-36-2	2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 1,1-dichloroethene, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl 2-propenoate, N-(hydroxymethyl)-2-propenamide, 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-propenoate, 2-[methyl[(p
59	71463-78-0	Phosphonic acid, [3-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]propyl]-
60	71463-80-4	Phosphonic acid, [3-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]propyl]-, diethyl ester
61	71487-20-2	2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl 2-propenoate, 2-[methyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-propenoate, 2-[methyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl 2-propenoate.
62	91081-99-1	Sulphonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with epichlorohydrin, adipates (esters)
63	92265-81-1	Ethanaminium, N,N,N-trimethyl-2-[[2-methyl-1-oxo-2-propenyl]oxy]-, chloride, polymer with 2-ethoxyethyl 2-propenoate, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl 2-propenoate and oxiranylmethyl 2-methyl-2-propenoate
64	94133-90-1	1-Propanesulphonic acid, 3-[[3-(dimethylamino)propyl][(heptadecafluorooctyl) sulphonyl]amino]-2-hydroxy-, monosodium salt
65	94313-84-5	Carbamic acid, [5-[[[2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethoxy]carbonyl]amino]-2-methylphenyl]-, 9-octadecenyl ester, (Z)-
66	98999-57-6	Sulphonamides, C7-8-alkane, perfluoro, N-methyl-N-[2-[[1-oxo-2-propenyl]oxy]ethyl], polymers with 2-ethoxyethyl acrylate, glycidyl methacrylate and N,N,N-trimethyl-2-[[2-methyl-1-oxo-2-propenyl]oxy]ethanaminium chloride
67	127133-66-8	2-Propenoic acid, 2-methyl-, polymers with Bu methacrylate, lauryl methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl methacrylate
68	129813-71-4	Sulphonamides, C4-8-alkane, perfluoro, N-methyl-N-(oxiranylmethyl)
69	148240-78-2	Fatty acids, C18-unsatd., trimers, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl esters
70	148684-79-1	Sulphonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 1,6-diisocyanatohexane homopolymer and ethylene glyco
71	160901-25-7	Sulphonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl), reaction products with 2-ethyl-1-hexanol and polymethylenepolyphenylene isocyanate
72	178094-69-4	1-Octanesulphonamide, N-[3-(dimethyloxidoamino)propyl]-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-.potassium salt
73	178535-22-3	Sulphonamides, C4-8-alkane, perfluoro, N-ethyl-N-(hydroxyethyl)-, polymers with 1,1'-methylenebis[4-isocyanatobenzene] and polymethylenepolyphenylene isocyanate, 2-ethylhexyl esters, Me Et ketone oxime-blocked
74	182700-90-9	1-Octanesulphonamide, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-methyl-, reaction products with benzene-chlorine-sulphur chloride (S2Cl2) reaction products chlorides
75	L-92-0151 (US Premanufacture notice)	2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-[ethyl[(heptadecafluorooctyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(nonafluorobutyl)sulphonyl]amino]ethyl 2-methyl-2-propenoate, 2-[ethyl[(pentadecafluoroheptyl)sulphonyl]amino]ethyl
76	P-94-2205 (US Premanufacture notice)	Polymethylenepolyphenylene isocyanate and bis(4-NCO-phenyl)methane reaction products with 2-ethyl-1-hexanol, 2-butanone, oxime, N-ethyl-N-(2-hydroxyethyl)-1-C4-C8 perfluoroalkanesulphonamide
77	192662-29-6	Sulphonamides, C4-8-alkane, perfluoro, N-[3-(dimethylamino)propyl], reaction products with acrylic acid
78	251099-16-8	1-Decanaminium, N-decyl-N,N-dimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulphonic acid (1:1)
79	306973-46-6	Fatty acids, linseed-oil, dimers, 2-[[heptadecafluorooctyl)sulphonyl]methylamino]ethyl esters
80	306973-47-7	Sulphonamides, C4-8-alkane, perfluoro, N-(hydroxyethyl)-N-methyl, reaction products with 12-hydroxystearic acid and 2,4-TDI, ammonium salts

№	CAS №	PFOS related substance
81	306974-19-6	Sulphonamides, C4-8-alkane, perfluoro, N-methyl-N-[(3-octadecyl-2-oxo-5-oxazolidinyl)methyl]
82	306974-28-7	Siloxanes and Silicones, di-Me, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]group]-terminated, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl acrylate and stearyl methacrylate
83	306974-45-8	Sulphonic acids, C6-8-alkane, perfluoro, compounds with polyethylene-polypropylene glycol bis(2-aminopropyl) ether
84	306974-63-0	Fatty acids, C18-unsatd., dimers, 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino] ethyl esters
85	306975-56-4	Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and N,N',2-tris(6-isocyanatoethyl)imidodicarbonic diamide, reaction products with N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-
86	306975-57-5	Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 1,1'-methylenebis[4-isocyanatobenzene] and 1,2,3-propanetriol, reaction products with Nethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-1-octanesulphonamide and
87	306975-62-2	2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl acrylate and vinylidene chloride
88	306975-84-8	Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, polymer with 1,6-diisocyanatohexane, N-(hydroxyethyl)-N-methyl perfluoro C4-8-alkane
89	306975-85-9	2-Propenoic acid, 2-methyl-, dodecyl ester, polymers with N-(hydroxymethyl)-2-propenamide, 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl methacrylate, stearyl methacrylate and vinylidene chloride
90	306976-25-0	1-Hexadecanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, bromide, polymers with Bu acrylate, Bu methacrylate and 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl acrylate
91	306976-55-6	2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with 2,4-diisocyanato-1-methylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 2-propenoic acid, N-ethyl-N-(hydroxyethyl)perfluoro-C4-8-alkanesulphonamides-blocked
92	306977-58-2	2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymers with acrylic acid, 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl acrylate and propylene glycol monoacrylate, hydrolysed, compounds with 2,2'-(methylimino)bis[ethanol]
93	306978-04-1	2-Propenoic acid, butyl ester, polymers with acrylamide, 2-[methyl[(perfluoro-C4-8-alkyl)sulphonyl]amino]ethyl acrylate and vinylidene chloride
94	306978-65-4	Hexane, 1,6-diisocyanato-, homopolymer, N-(hydroxyethyl)-N-methyl perfluoro-C4-8-alkane sulphonamides- and stearyl alc.-blocked
95	306979-40-8	Poly(oxy-1,2-ethanediyl), .alpha.-[2-(methylamino)ethyl]-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-, N-[(perfluoro-C4-8-alkyl)sulphonyl]
96	306980-27-8	Sulphonamides, C4-8-alkane, perfluoro, N,N'-[1,6-hexanediylbis[(2-oxo-3,5-oxazolidinediyl)methylene]]bis[N-methyl-