

## **Kaufland Greenpeace Detox Commitment**

**DATE: 15 12 2015**

In line with **Kaufland** s long-term sustainability program **Kaufland** recognizes the urgent need for

- a) eliminating all releases of all hazardous chemicals (1)
- b) new responsible business models (12) and resource stewardship

According to its approach based on prevention (2) and the Precautionary Principle (3) **Kaufland** is committed to

- i - zero discharges (4) of all hazardous chemicals into the environment
- ii – reducing and maintaining complete supply chain priority resource use within equitable and planetary limits

associated with the making and using of apparel, footwear products and home textiles **Kaufland** produces and / or sells (5) by no later than 01 January 2020.

We recognize that to achieve this goal,

- mechanisms for disclosure and transparency about the hazardous chemicals used in our global supply chains are important and necessary, and should be in line with the 'Right to Know principle' (6).
- production and consumption business model changes, that revolutionise the design and systems of consumption and living , are required, including a system shift to more comprehensive Extended Producer Responsibility (11) that is based on closed 'slow' loop, resource constrained and non-toxic manufacturing.

**Kaufland** also commits to fully and publicly support systemic (i.e. wider societal and policy) change to achieve zero discharges (4) of hazardous chemicals (associated with supply chains and the lifecycles of products) within one generation (7) or less. This commitment includes sustained investment in moving industry, government, science and technology to deliver on systemic change and to affect system change across the industry towards this goal, recognising that this may require resource quotas, hazardous chemical and selected virgin material taxes/fees.

**Kaufland** agrees to publicly support efforts to eliminate all global hazardous chemical use, and to fully integrate the precautionary principle and the public's right-to-know regarding all environmental aspects across our operations.

**Kaufland** acknowledges our individual corporate responsibility to always operate with a strong system of environmental oversight of our suppliers and our operations.

This commitment, as well as the individual action plan - and the links to the evidence supporting the delivery for all aspects of this commitment no later than the delivery dates indicated within this commitment – will always be available to the global public via our main public webpage.

**Kaufland** understands the scope of the commitment to be a long-term vision – with on-going ambitious practices including the following individual action plan:

## Individual action plan

### 1. Supply-chain disclosure

In line with **Kaufland's** commitment to the public's 'right to know' the chemical substances used within its global supply-chain and the products it sells, **Kaufland** will be taking the following actions:

1. publish our company (updated) 'Combined' or 'Manufacturing' 'Restricted Substances List (MRSL)' (RSL including manufacturing and product restricted substances) containing detection limits (4) within 8 -12 weeks of the publication of this commitment, and annually thereafter update this MRSL to reflect our full implementation of the precautionary principle, always applying the best current technology – i.e. the lowest reporting limits technology can achieve.
2. begin with the detailed public disclosure of use and discharges of hazardous chemicals based on reported quantities of releases of hazardous chemicals to the environment, facility by facility, year by year, made available in a searchable, online and international database/platform.

The list of chemicals to report on in this database should begin with, at least, the 11 priority chemical groups (as per endnote 8) and detection limits (as per our company MRSL), always applying the best current technology (as per endnote 4), in our supply chain via full facility transparency (i.e. detailed location and individual data of each facility) and disclosure of chemical-by-chemical use and discharges data, beginning with the following actions:

- i. As soon as possible after the publication of this commitment, (no later than July 2016) we commit to have the full testing evidence published by at least 50 % of all our global wet process suppliers' facilities or affiliates where hazardous chemicals are used in china, and will disclose the discharge data of facilities located in china by using the online platform of the Institute for Public and Environmental Affairs and the Detox discharge data template (IPE Detox Platform) or equivalent.
- ii. As soon as possible and by no later than 9 months (1 September 2016) after the publication of this commitment, we will also commit to have the full testing evidence published by at least 80 % of our global wet process suppliers facilities or affiliates where hazardous chemicals are used, and will disclose the discharge data of facilities located in china (as per full scope and content of our MRSL) by using the IPE Detox Platform (or equivalent).
- iii. By no later than 1 December 2016, 80% of our wet process facilities or affiliates where hazardous chemicals are used (as per i) and ii) above), will be publicly associated to our company. Kaufland agrees to work towards supply chain transparency during 2016 via disclosure of full supplier list on company website in line with apparel sector best practice.

- iv. **Kaufland** agrees to always ensure the discharge data disclosure is fully credible and reflects the MRSL and that we will always disclose via a single searchable, online and international database/platform (using the IPE Detox Platform or equivalent) for facilities located in china.

## 2. 11 priority hazardous chemical groups elimination policy

Fully aligned with our implementation of the precautionary principle across all of our environment-related operations, we recognise the intrinsic, or potential intrinsic hazardous properties of all 11 priority hazardous chemical groups (as per endnote 8), and therefore acknowledge it is our priority to eliminate the use and discharge of these chemicals into the environment across our global supply chain and our operations. There are multiple supply-chain pathways for potential contamination (including chemical formulations) and we will enhance both training and auditing of our supply-chain and our operations to prevent that any of these chemicals enter into our supply chain via undocumented contamination of chemical supplier formulations.

In line with our elimination policy, **Kaufland** will enforce its ban on the 8 of the 11 priority hazardous chemical groups (as per endnote 8), specifically Phthalates, Brominated and chlorinated flame retardants, Azo dyes, Organotin compounds, Chlorobenzenes , Chlorinated solvents, Chlorophenols, and Short chain chlorinated paraffins , with the following actions:

- i. publish the results of an investigation and the full testing evidence into the current compliance to this requirement and reporting the findings to the public and
- ii. strengthening our supplier contract language to ensure only chemical formulations free of these priority hazardous chemical groups are utilized and
- iii. work with our supply chain and other global industry leaders, to ensure the most current technological limits of detection are reflected via the lowest detectable limits within our testing regimes and
- iv. publicly document via company websites how at least APEOS and PFCs of the 8 priority hazardous chemical groups have been substituted by safer alternatives. Each of these case studies will also be submitted to ECHA (European Chemicals Agency) within 12 months of the publication of this commitment (31.12.2016) with a request that ECHA set up an appropriate online public alternatives database.

## 3. Alkyl phenols & their ethoxylates (APEOs) elimination policy

Consistent with the precautionary principle and the potential intrinsic hazardous properties of all APEOs, **Kaufland** commits to eliminate any APEOs used in any of the products **Kaufland** produces and/or sells. The elimination of all APEOs used by any of the products we produce or sell will be supported by:

- i. Enforcing the elimination of APEOs by strengthening our supplier contract language to ensure only APEOs-free chemical formulations are utilized;
- ii. Establishing a rigorous system of control to ensure that no traces of APEOs find their way into our supply chain in line with the above;

- iii. Publishing the results of an investigation and the full testing evidence into the current compliance to this requirement and reporting the findings to the public by not later than 1 July 2016;
- iv. Work with our supply chain and other global industry leaders, to ensure the most current technological limits of detection are reflected via the lowest detectable limits within our testing regimes.

#### **4. PFCs - Perfluorocarbon / Polyfluorinated Compounds (as per endnote 9) elimination policy**

Consistent with the precautionary principle and the potential intrinsic hazardousness of all PFCs, **Kaufland** commits to eliminate any PFCs used in any of the products **Kaufland** produces and/or sells, across our global supply-chain, by no later than 31.12.2016. The elimination of all PFCs used by any of the products we produce or sell will be supported by:

- i. Publishing the results of an investigation and the full testing evidence into the current compliance to this requirement and reporting the findings to the public by no later than 31.12.2016;
- ii. Strengthening our supplier contract language to ensure only chemical formulations free of PFCs are utilized and establish a rigorous system of control to ensure that no traces of PFCs find their way into our supply chain in line with the above;
- iii. Work in partnership with our supply chain and other global industry leaders to accelerate the move to non-PFC technologies.

#### **5. Targets for Other Hazardous Chemicals**

As an important part of our implementation of the precautionary principle, **Kaufland** commits to regularly review (as per hazardous chemical screening methodology that follow the principles and criteria in annex 1 or any public and procedurally transparent list of hazardous chemicals identified based on the same) the list of chemicals used in our operations and our global supply-chain, and our MRSL. **Kaufland** will apply the latest scientific findings to update our chemical policy, at least annually, to further restrict or ban chemicals, as new evidence on their impact becomes available.

In line with the Right-to-Know principle we will deliver full public availability and transparency of our restricted substance lists, related audit process and the hazardous chemical screening methodology applied.

In this context we will also set clear intermediate progress targets on the elimination of hazardous chemicals beyond the 11 priority hazardous chemical groups, including a public hazardous chemical-by-chemical schedule for elimination and substitution with non-hazardous chemistry within 8 -12 weeks of the publication of this commitment. This will support our long-term road to elimination of all hazardous chemical use by no later than 01 January 2020. This public detailed hazardous chemical-by-chemical schedule will be updated annually.

## 6. Responsible Design and Consumption or Living (via closed-loop operations across global supply-chain and product lifecycles)

**Kaufland** will implement a Responsible Design and Consumption or Living policy and system (12) based on comprehensive Extended Producer Responsibility (EPR) (11) that will:

- i. develop a global "take-back our products that we produce and sell" program for customers by no later than 01 July 2016, as a first step to implementing a responsible "closed-loop" life cycle for all products we produce and/or sell. In line with this reach 50% of our customers with the "take-back" program by September 2016 and 80% by December 2016 aim to achieve 25%-50% take-back of existing and new products in company owned (or cooperating and approved collection and takeback systems (13)) by March 2017
- ii. initiate a global "sustainable consumption and living" system to encourage and enable customers and users to purchase and use products in ways compatible with Responsible and Consumption or Living business model (12) In line with this reach between 25% -50% sale or purchases of high quality "non-disposable" products we sell certifying the quality against clear criteria (14) by no later than December 2017
- iii. raise 'consumer' awareness and change attitudes and demands or expectations regarding modes of use and ownership of clothing, (apparel, footwear and home textile products) and the need to work towards eliminating "linear/non circular" and "disposable" (designed for short lifespan) products. For example by advertising in the context of education pilot projects and campaigns for shaping and training new 'social practice' (building skills and functional understanding beyond just providing more information) by no later than 1 July 2016

## 7. Self reporting on the Detox Commitment

**Kaufland** delivers a full public schedule of evidence supporting the delivery of each and every component of this Detox commitment by no later than the date indicated in this Detox commitment. The core responsibility principles for delivering on our commitment are:

- i. **Kaufland** will always proactively provide the public precise schedules for all our detailed and credible evidence (e.g. all hazardous chemical testing via the use of our company MRSL) supporting the delivery of all aspects of our Detox commitment.
- ii. **Kaufland** is responsible to proactively, publicly and transparently provide full details as to any deviations from the delivery of any aspect of our Detox commitment, and to effectively resolve within no more than 30 days.

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Endnotes:

(1) All hazardous chemicals mean all those that show intrinsically hazardous properties: persistent, bioaccumulative and toxic (PBT); very persistent and very bioaccumulative (vPvB); carcinogenic, mutagenic and toxic for reproduction (CMR); endocrine disruptors (ED), or other properties of equivalent concern, (not just those that have been regulated or restricted in other regions).

(2) This means solutions are focused on elimination of hazardous chemical use at source, not by end-of-pipe techniques or via risk management. This requires either substitution with non-hazardous chemicals or where necessary finding non- chemical alternative solutions, such as re-evaluating product design or the functional need for chemicals.

(3) This means taking preventive action before waiting for conclusive scientific proof regarding cause and effect between the substance (or activity) and the damage. It is based on the assumption that some hazardous substances cannot be rendered harmless by the receiving environment (i.e. there are no 'environmentally acceptable'/ 'safe' use or discharge levels) and that prevention of potentially serious or irreversible damage is required, even in the absence of full scientific certainty. The process of applying the Precautionary Principle must involve an examination of the full range of alternatives, including, where necessary, substitution through the development of sustainable alternatives where they do not already exist.

(4) Zero discharge means elimination of all releases, via all pathways of release, i.e. discharges, emissions and losses, from our supply chain and our products. "Elimination" or "zero" means 'not detectable, to the limits of the best current technology', and only background levels of naturally occurring substances are acceptable.

(5) This means the commitment applies to the environmental practices of the entire company (group, and all entities it directs or licences) and for all own brands and direct imports, produced or sold by **Kaufland** or any of its subsidiaries. This includes all its suppliers or facilities horizontally across all owned brands and licensed companies as well as vertically down its supply chain.

(6) Right to Know is defined as practices that allow members of the public access to environmental information – in this case specifically about the uses and discharges of chemicals based on reported quantities of releases of hazardous chemicals to the environment, chemical-by-chemical, facility-by-facility, at least year-by-year.

(7) One generation is generally regarded as 20-25 years.

(8) The 11 priority hazardous chemical groups are: 1. Alkyl phenols & their ethoxylates (APEOS) 2. Phthalates 3. Brominated and chlorinated flame retardants 4. Azo dyes (that release carcinogenic amines through reductive cleavage) 5. Organotin compounds 6. Per- and poly-fluorinated chemicals 7. Chlorobenzenes 8. Chlorinated solvents 9. Chlorophenols 10. Short chain chlorinated paraffins 11. Heavy metals such as cadmium, lead, mercury and chromium (VI).

(9) Polyfluorinated compounds, such as fluorotelomers, can serve as precursors that degrade to form perfluorinated carboxylic acids, e.g. PFOA

(11) Extended and Producer Responsibility is individual and global company responsibility to ensure the whole lifecycle of a product and the delivery of a function (from sourcing and design to use, re-use and recycling or final decontamination and treatment):

- protects the well-being of the natural environment, stays within planetary boundary limits and supports the socio-economic well-being of workers and local communities;
- ensures the system for end-of-life collection achieves high use of product and material quality through effective collection, disassembly and re-use or recycling;
- ensures the system for reuse (or any life-extension of the product), recycling and final treatment incentivises changes in design by the product designer both financially , through internalization of the real own-brand/differentiated end-of-life costs into the company business model, and through information feedback, including to other actors in the extended life-cycle;
- includes supporting and implementing fully circular resource use and full resource stewardship (recognizing that natural resources are not 'owned' but 'borrowed' to meet a need).

(12) Responsible Design and Consumption or Living business models – are systems of products and services that are designed to deliver functions to meet needs, integrating full circularity and EPR (as defined above). These systems include a comprehensive process for identifying all lifecycle aspects, considering the most responsible design, production, product use and closed-loop reuse and recycling, aiming to maximize the use of closed-loop and slow-loop manufacturing and value creation. Closed loop systems should give preference to local solutions where possible.

(13) Take-back programmes shall enable high use of products and materials in the form of re-use and recycling through effective collection maintaining or upgrading material quality. Un reusable or recyclable materials should be sent to decontamination or environmentally-sound treatment. Take-back programmes shall ensure the products are taken back to and by the original producer or the retailer and return to their legal ownership, to ensure that full financial incentives are created to find better value options for the reuse of these materials. Programmes shall ensure that collected articles and materials are not being exported to any location where there is no equivalent re-collection and reuse/recycling system in place in order to avoid single re-use and landfill and incineration in, inter-alia, East EU or Africa.

(14) High quality criteria should include at least organic materials content e.g. GOTS certified and lifespan guarantee e.g. 3-5 years minimum customer guarantee for repair or replacement if brought back.

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## **Annex 1 - Detox hazardous chemical screening methodology:**

Any hazardous chemical screening methodology should include (but not be limited to) the following requirements

- 1) Has a hazard based approach without use of any 'risk based' criteria for excluding certain chemicals.
- 2) The hazard approach should include a broad range of hazardous categories, ie at least those considered under EU REACH regulation.
- 3) Make use of a wide range of sources of information (e.g. at least all publically available information).
- 4) Make use of cautious thresholds in hazardous criteria setting (ie at least those used under best practice regulation and conventions)
- 5) Incorporate ongoing assessment of the effectiveness of the screening tool at identifying hazardous substances (e.g. by comparison of screening outcome with other forms of assessment for a sub-set of chemicals)
- 6) The full criteria and methods applied and full data behind results must be open to public scrutiny, including the types of hazardous property which must be evaluated and any thresholds used as well as full transparency on the information sources used to assess hazard
- 7) The screening methodology approach must take account of the hazards of accessory chemical and/ or breakdown products which are generated through the use or release\_of any one particular chemical ingredient.
- 8) The screening methodology must recognise the importance of physical form e.g. nanomaterials, polymers and whole products where applicable.
- 9) Where there are legitimate reasons for concern regarding the intrinsic hazards of a chemical, even if information is insufficient to verify those hazards, action must be taken to obtain sufficient information to enable adequate assessment of the chemical. When there is no information on the chemical the 'hazardous until proven non- hazardous' assumption should apply. This includes making assessments on a chemical group basis, drawing on information for closely related chemicals



## Priority 11 group examples

Note that the restriction applies to all members of each of the 11 groups. Where applicable, a list of specific examples is given for each group. These are examples, and do not provide an exhaustive list for each group

Note: all chemicals to be tested in input formulations and output discharge (wastewater and sludge) and products

Note: annex: examples for detection limit from different labs

	Category	Name to list	CAS	NOTES
	<b><u>Alkylphenols (APEO)</u></b>			
1		4-(1,1,3,3-Tetramethylbutyl)-phenol	140-66-9	
2		Octylphenol	27193-28-8	
3		4-Octylphenol	1806-26-4	
4		4-Nonylphenol (branched)	25154-52-3	
5		Nonylphenol	104-40-5	
6		Nonylphenol (mixed isomers)	90481-04-2	
7		Nonylphenol Ethoxylates NPEO (1-2) various		
8		Nonylphenol Ethoxylates NPEO (3-18) various		
9		Nonylphenol ethoxylated	9016-45-9, 68412-54-4, 127087-87-0, 37205-87-1	
10		4-Nonylphenol, ethoxylated	26027-38-3	
11		Octylphenol Ethoxylates OPEO (1-2) various		
12		Octylphenol Ethoxylates OPEO (3-18) various		
13		4-tert-Octylphenoethoxylate	9036-19-5, 68987-90-6	
	<b><u>Phthalates</u></b>			
14		Di-Butyl Phthalate (DBP)	84-74-2	
15		Di(2-Ethyl Hexyl) Phthalate(DEHP)	117-81-7	

Category	Name to list	CAS	NOTES
16	Benzyl Butyl Phthalate (BBP)	85-68-7	
17	Di-Iso-Nonyl Phthalate (DINP)	28553-12-0,68515-48-0	
18	Di-N-Octyl Phthalate (DNOP)	117-84-0	
19	Di-Iso-Decyl Phthalate (DIDP)	26761-40-0,68515-49-1	
20	Di-Iso-Butyl Phthalate (DIBP)	84-69-5	
21	Di-N-Hexyl Phthalate (DNHP)	84-75-3	
22	Di-(2-methoxyethyl) phthalate (DMEP)	117-82-8	
23	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	
24	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	
25	Dipentyl phthalate (DPP)	131-18-0	
26	Diisopentylphthalate	605-50-5	
27	N-pentyl-isopentylphthalate	776297-69-9	

### Brominated and Chlorinated Flame retardants

28	Polybrominated diphenyl ethers (PBDEs) various		
29	Monobromo diphenyl ethers (MonoBDE) -		
30	Dibromo diphenyl ethers (DiBDE) -		
31	Tribromo diphenyl ethers (TriBDE) -		
32	Tetrabromo diphenyl ethers (TetraBDE)	40088-47-9	
33	Pentabromo diphenyl ethers (PentaBDE)	32534-81-9	
34	Hexabromo diphenyl ethers (HexaBDE)	36483-60-0	
35	Heptabromo diphenyl ethers (HeptaBDE)	68928-80-3	
36	Octabromo diphenyl ethers (OctaBDE)	32536-52-0	
37	Nonabromo diphenyl ethers (NonaBDE)	63936-56-1	
38	Decabromo diphenyl ether (DecaBDE)	1163-19-5	
39	Tris(2,3-Dibromopropyl)-Phosphate	126-72-7	
40	Tris(2-Chloroethyl)Phosphate (TCEP)	115-96-8	

Category	Name to list	CAS	NOTES
41	Hexabromocyclododecane (HBCDD)	134237-50-6,134237-51-7,134237-52-8,25637-99-4,3194-55-6	
42	Tetrabromo-bisphenol A (TBBPA)	79-94-7	
43	Bis (2,3-dibromopropyl) phosphate	5412-25-9	
44	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	13674-87-8	
45	Tris (1-chloro-2-propyl) phosphate (TCPP)	13674-84-5	

### Amines (Associated with Azo dyes)

NOTE; the restriction applies to the manufacture/use all azo dyes that can release one or more of the listed amines (Note, the restriction also applies to the use of the listed amines, such as for use in dye manufacture).

46	4-Aminodiphenyl	92-67-1
47	Benzidine	92-87-5
48	4-Chloro-o-Toluidine	95-69-2
49	2-Naphthylamine	91-59-8
50	o-Aminoazotoluene	97-56-3
51	2-Amino-4-Nitrotoluene	99-55-8
52	p-Chloroaniline	106-47-8
53	2,4-Diaminoanisole	615-05-4
54	4,4'-Diaminodiphenylmethane	101-77-9
55	3,3'-Dichlorobenzidine	91-94-1
56	3,3'-Dimethoxybenzidine	119-90-4
57	3,3'-Dimethylbenzidine	119-93-7
58	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0
59	p-Cresidine	120-71-8
60	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4
61	4,4'-Oxydianiline	101-80-4
62	4,4'-Thiodianiline	139-65-1
63	o-Toluidine	95-53-4
64	2,4-Toluylenediamine	95-80-7
65	2,4,5-Trimethylaniline	137-17-7
66	o-Anisidine	90-04-0
67	p-Aminoazobenzene	60-09-3
68	2,4-Xylidine	95-68-1

Category	Name to list	CAS	NOTES
69	2,6-Xylidine	87-62-7	
<b><u>Organotin compounds</u></b>			
70	MBT(Monobutyltin)	78763-54-9	
71	DBT(Dibutyltin)	1002-53-5	
72	TBT(Tributyltin)	36643-28-4	
73	DOT(Dioctyltin)	94410-05-6	
74	MOT(Monooctyltin)	15231-44-4	
75	DPhT(Diphenyltin)	1011-95-6, 6381-06-2	
76	TeBT(Tetrabutyltin)	1461-25-2	
77	TCHT(Tricyclohexyl Tin)	6056-50-4	
78	TPT(Tripropyltin)	NA	
79	TeET(Tetraethyltin)	597-64-8	
80	Tributyltin oxide (TBTO)	56-35-9	
81	Dibutyltin dichloride (DBTC)	683-18-1	
82	Triphenyltin (TPhT)	668-34-8	
83	Dibutyltin hydrogen borate (DBB)	75113-37-0	
<b><u>PFCs</u></b>			
84	PFBA	375-22-4	
85	PFPeA	2706-90-3	
86	PFHxA	307-24-4	
87	PFHpA	375-85-9	
88	PFOA	335-67-1	
89	PFNA	375-95-1	
90	PFDA	335-76-2	
91	PFUnA	2058-94-8	
92	PFDoA	307-55-1	
93	PFTrA	72629-94-8	
94	PFteA	376-06-7	
95	PFBS	375-73-5 or 59933-66-3	

Category	Name to list	CAS	NOTES
96	PFHxS	355-46-4	
97	PFHpS	375-92-8	
98	PFOS	1763-23-1	
99	PFDS	335-77-3	
100	4:2 FTOH	2043-47-2	
101	6:2 FTOH	647-42-7	
102	8:2 FTOH	678-39-7	
103	10:2 FTOH	865-86-1	
104	6:2 FTA	17527-29-6	
105	8:2 FTA	27905-45-9	
106	10:2 FTA	17741-60-5	
107	PFOSA	754-91-6	
108	POSF	307-35-7	
109	N-Me-FOSA	31506-32-8	
110	N-Et-FOSA	4151-50-2	
111	N-Me-FOSE alcohol	24448-09-7	
112	N-Et-FOSE alcohol	1691-99-2	
113	PF-3,7-DMOA	172155-07-6	
114	HPFHpA	1546-95-8	
115	4HPFUnA	34598-33-9	
116	1H, 1H, 2H, 2H-PFOS	27619-97-2	
<b><u>Chloro benzenes</u></b>			
117	Dichlorobenzenes various		
118	1,2-Dichlorobenzene	95-50-1	
119	1,3-Dichlorobenzene	541-73-1	
120	1,4-Dichlorobenzene	106-46-7	
121	Trichlorobenzenes various		
122	1,2,3-Trichlorobenzene	87-61-6	
123	1,2,4-trichlorobenzene	120-82-1	
124	1,3,5-Trichlorobenzene	108-70-3	
125	Tetrachlorobenzene	12408-10-5	

Category	Name to list	CAS	NOTES
126	1,2,3,4-tetrachlorobenzene	634-66-2	
127	1,2,3,5-tetrachlorobenzene	634-90-2	
128	1,2,4,5-tetrachlorobenzene	95-94-3	
129	Pentachlorobenzene	608-93-5	
130	Hexachlorobenzene	118-74-1	
131	chlorobenzene	108-90-7	
<b><u>Chlorinated solvents</u></b>			
132	Dichloromethane	75-09-2	
133	Chloroform	67-66-3	
134	Tetrachloromethane	56-23-5	
135	1,1,2-Trichloroethane	79-00-5	
136	1,1-Dichloroethane	75-34-3	
137	1,2-Dichloroethane	107-06-2	
138	Trichloroethylene	79-01-6	
139	Perchloroethylene	127-18-4	
140	1,1,1-trichloroethane	71-55-6	
141	1,1,1,2-Tetrachloroethane	630-20-6	
142	1,1,2,2-Tetrachloroethane	79-34-5	
143	Pentachloroethane	76-01-7	
144	1,1-Dichloroethylene	75-35-4	
145	1,2,3-trichloropropane	96-18-4	
<b><u>Chloro phenols</u></b>			
146	Pentachlorophenols (PCP)	87-86-5	
147	Tetrachlorophenols (TeCP)	25167-83-3	
148	2,3,4,5-Tetrachlorophenol	4901-51-3	
149	2,3,4,6-Tetrachlorophenol	58-90-2	
150	2,3,5,6-tetrachlorophenol	935-95-5	
151	Trichlorophenol (TriCP)	25167-82-2	
152	2,4,6-trichlorophenol	88-06-2	

Category	Name to list	CAS	NOTES
153	2,3,4-trichlorophenol	15950-66-0	
154	2,3,5-trichlorophenol	933-78-8	
155	2,3,6-trichlorophenol	933-75-5	
156	2,4,5-trichlorophenol	95-95-4	
157	3,4,5-trichlorophenol	609-19-8	
158	Dichlorophenols (DiCP)	25167-81-1	
159	2,3-dichlorophenol	576-24-9	
160	2,4-dichlorophenol	120-83-2	
161	2,5-dichlorophenol	583-78-8	
162	3, 4-dichlorophenol	95-77-2	
163	3, 5-dichlorophenol	591-35-5	
164	Mono Chlorophenol various		

**SCCP**

165	SCCP C10–13	85535-84-8	
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**Heavy metals**

166	Total Cadmium(Cd)	7440-43-9	
167	Total Lead(Pb)	7439-92-1	
168	Total Mercury(Hg)	7439-97-6	
169	Total Hexavalent chromium (Cr-VI)	18540-29-9	

**Beyond Priority 11 group examples**

**NOTE; Categories are in no particular order**

Category	Name to list	CAS	NOTES
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	<b>Category</b>	<b>Name to list</b>	<b>CAS</b>	<b>NOTES</b>
	<b><u>Antioxidant</u></b>			
170	antioxidant	2,4,6-tri(t-butyl)Phenol	732-26-3	
171	antioxidant	2,6-di-tert-butyl-4-(1-methylpropyl)-hydroxybenzene	17540-75-9	
172	antioxidant	2,6-di-tert-butyl-4-(methylthioacetic acid, 2-ethylhexyl ester)-hydroxybenzene	80387-97-9	
173	antioxidant	6,6'-di-tert-butyl-4,4'-thiodi-m-cresol	96-69-5	
	<b><u>Brominated solvents</u></b>			
174	Br-solvent	1,2-dibromoethane	106-93-4	
175	Br-solvent	1-bromopropane; n-propyl bromide	106-94-5	
176	Br-solvent/dye intermediate	Bromoethane	74-96-4	
177	Br-solvent/dye intermediate	2-bromopropane	75-26-3	
	<b><u><math>\alpha</math>-chlorotoluenes</u></b>			
178	$\alpha$ -chlorotoluene	Benzyl chloride; $\alpha$ -chlorotoluene	100-44-7	
179	$\alpha$ -chlorotoluene	p-chlorobenzotrichloride	5216-25-1	
180	$\alpha$ -chlorotoluene	$\alpha,\alpha,\alpha$ -trichlorotoluene; benzotrichloride	98-07-7	
181	$\alpha$ -chlorotoluene	$\alpha,\alpha$ -Dichlorotoluene (Benzal chloride)	98-87-3	
	<b><u>Azo dyes that release carcinogenic amines through reductive cleavage (in addition to the priority 11 examples linked to amines listed in EU &amp; Chinese regulations)</u></b>			
182	azo dye (CMR)	(methylenebis(4,1-phenylenazo(1-(3-(dimethylamino)propyl)-1,2-dihydro-6-hydroxy-4-methyl-2-oxopyridine-5,3-diyl)))-1,1'-dipyridinium dichloride dihydrochloride	118658-99-4	
183	azo dye (CMR)	C.I. Acid Red 26	3761-53-3	
184	azo dye (CMR)	Pigment Rot 53:1 (C.I. 15585:1); D&C Red No. 9	5160-02-1	
185	azo dye (CMR)	C.I. Solvent Yellow 14	842-07-9	



	<b>Category</b>	<b>Name to list</b>	<b>CAS</b>	<b>NOTES</b>
186	azo dye (CMR)	1,2-dihydro-6-hydroxy-4-methyl-1-[3-(1-methylethoxy)propyl]-2-oxo-5-[[4-(phenylazo)phenyl]azo]-3-pyridinecarbonitrile	85136-74-9	
187	azo dye (CMR)	C.I. Disperse Yellow 3	2832-40-8	
188	azo dye (CMR)	C.I. Solvent Yellow 2	60-11-7	
189	azo dye (CMR)	C.I. Direct Blue 218	28407-37-6	
190	azo dye amine	Diaminobenzidine [biphenyl-3,3',4,4'-tetrayltetraamine]	91-95-2	
191	azo dye amine	diaminotoluene	25376-45-8	
192	azo dye amine	N,N'-Diacetylbenzidine	613-35-4	
193	azo dye amine	toluene-2,4-diammonium sulphate	65321-67-7	
	<b>Dyes</b>			
194	dye (CMR)	C.I. Acid Violet 49	1694-09-3	
195	dye (CMR)	Methanaminium, N-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride	548-62-9	
196	dye (CMR)	C.I. Basic Red 9 monohydrochloride	569-61-9	
197	dye (CMR)	C.I. 77332, C.I. Pigment Black 25, cobalt nickel gray periclase	68186-89-0	
198	dye (CMR)	C.I. 77900, C.I. Pigment Yellow 157, nickel barium titanium primrose priderite	68610-24-2	
199	dye (CMR)	D&C Red No. 19	81-88-9	
200	dye	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	
201	dye	Auramine hydrochloride	2465-27-2	
202	dye	C.I. Basic Green 4 leuco base	129-73-7	
203	dye	C.I. Disperse Blue 1	2475-45-8	
204	dye	C.I. Pigment Brown 22	29398-96-7	
205	dye	C.I. Pigment Red 53; D&C Red No. 8	2092-56-0	
206	dye	Pigment Red 168	4378-61-4	
207	dye	Disperse Orange 11	82-28-0	

Category	Name to list	CAS	NOTES
<b><u>Dye intermediate</u></b>			
208	dye intermediate	3-amino-9-ethyl carbazole, 9-ethylcarbazol-3-ylamine	132-32-1
209	dye intermediate	4,4-isobutylethylidenediphenol	6807-17-6
210	dye intermediate	4-amino-3-fluorophenol	399-95-1
211	dye intermediate	Anthraquinone	84-65-1
212	dye intermediate	anthraquinone, 1-hydroxy	129-43-1
213	dye intermediate	Carbazole	86-74-8
214	dye intermediate	diazomethane	334-88-3
215	dye intermediate	Dimethylcarbamoyl chloride	79-44-7
216	dye intermediate	quinoline	91-22-5
217	dye reagent	potassium bromate	7758-01-2
<b><u>Dinitrotoluenes</u></b>			
218	dinitrotoluene	2,4-dinitrotoluene	121-14-2
219	dinitrotoluene	dinitrotoluene (isomer mixture)	25321-14-6
220	dinitrotoluene	2,3-dinitrotoluene	602-01-7
221	dinitrotoluene	2,6-Dinitrotoluene	606-20-2
222	dinitrotoluene	3,4-dinitrotoluene	610-39-9
223	dinitrotoluene	3,5-dinitrotoluene	618-85-9
224	dinitrotoluene	2,5-dinitrotoluene	619-15-8
<b><u>Epoxy intermediate (CMRs)</u></b>			
225	epoxy intermediate (CMR)	Epichlorohydrin	106-89-8
226	epoxy intermediate (CMR)	phenyl glycidyl ether; 2,3-epoxypropyl phenyl ether; 1,2-epoxy-3-phenoxypropane	122-60-1
227	epoxy intermediate (CMR)	2,2'-bioxirane [1,2:3,4-diepoxybutane]	1464-53-5

	<b>Category</b>	<b>Name to list</b>	<b>CAS</b>	<b>NOTES</b>
		2,3-epoxypropyltrimethylammonium chloride; EPTAC; Oxiranemethanaminium, N,N,N-trimethyl chloride;		
228	epoxy intermediate (CMR)	Glycydyltrimethylammonium chloride	3033-77-0	
229	epoxy intermediate (CMR)	R-1-chloro-2,3-epoxypropane	51594-55-9	
230	epoxy intermediate (CMR)	Glycidol [2,3-epoxy-1-propanol]	556-52-5	
231	epoxy intermediate (CMR)	R-2,3-epoxy-1-propanol	57044-25-4	
232	epoxy intermediate (CMR)	1,3,5-tris-[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine- 2,4,6-(1H,3H,5H)-trione	59653-74-6	
233	epoxy intermediate (CMR)	oxiranemethanol, 4-methylbenzene-sulfonate, (S)-	70987-78-9	
234	epoxy intermediate (CMR)	ethylene oxide; oxirane	75-21-8	
235	epoxy intermediate (CMR)	propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	
236	epoxy intermediate (CMR)	styrene oxide; (epoxyethyl)benzene; phenyloxirane	96-09-3	
	<b><u>Fibrous mineral</u></b>			
237	fibrous mineral	asbestos	-	
238	fibrous mineral	erionite	12510-42-8	
	<b><u>Glycol ethers</u></b>			
239	glycol ether	Glycol; diglyme	111-96-6	
240	glycol ether	Ethylene glycol monomethyl ether	109-86-4	
241	glycol ether	Ethylene glycol monomethyl ether acetate; 2- Methoxyethyl acetate	110-49-6	
242	glycol ether	1,2-dimethoxyethane; ethylene glycol dimethyl ether; EGDME	110-71-4	
243	glycol ether	Ethylene glycol monoethyl ester	110-80-5	
244	glycol ether	Ethylene glycol monoethyl ether acetate	111-15-9	
245	glycol ether	1,2-diethoxyethane	629-14-1	

	<b>Category</b>	<b>Name to list</b>	<b>CAS</b>	<b>NOTES</b>
246	glycol ether	Ethylene glycol	107-21-1	
247	glycol ether	Glycol; triglyme (TEGDME)	112-49-2	
<b><u>Monomers</u></b>				
248	monomer	1,3-Butadiene	106-99-0	
249	monomer	Acetaldehyde	75-07-0	
250	monomer	Acrylonitrile	107-13-1	
251	monomer	Aziridine [Ethyleneimine]	151-56-4	
252	monomer	aziridine, 2-methyl	75-55-8	
253	monomer	chloroprene (stabilized); 2-chlorobuta-1,3-diene	126-99-8	
254	monomer	dimethylsulfamoylchloride	13360-57-1	
255	monomer	Ethyl acrylate	140-88-5	
256	monomer	Isobutyl nitrite	542-56-3	
257	monomer	Isoprene	78-79-5	
258	monomer	Methylcarbamate	598-55-0	
259	monomer	N-Vinyl-2-pyrrolidinone	88-12-0	
260	monomer	Propane sultone [1,3-propanesultone; 1,2-oxathiolane 2,2-dioxide]	1120-71-4	
261	monomer	Urethane (Ethyl carbamate)	51-79-6	
262	monomer	Vinyl bromide	593-60-2	
263	monomer	Vinyl chloride	75-01-4	
264	monomer	Acrylamide	79-06-1	
265	monomer	N-Methylolacrylamide	924-42-5	
<b><u>N-nitroso compounds</u></b>				
266	N-nitroso compounds	N-Nitrosopiperidine	100-75-4	
267	N-nitroso compounds	N-Nitrosomethylethylamine	10595-95-6	
268	N-nitroso compounds	N-Nitrosodiethanolamine	1116-54-7	
269	N-nitroso compounds	N-Ethyl-N-nitrosoanilin	612-64-6	
270	N-nitroso compounds	N-Methyl-N-nitrosoanilin	614-00-6	
271	N-nitroso compounds	N-Nitrosodi-n-propylamine	621-64-7	

	<b>Category</b>	<b>Name to list</b>	<b>CAS</b>	<b>NOTES</b>
272	N-nitroso compounds	N-Nitrosodimethylamine	62-75-9	
273	N-nitroso compounds	N-Methyl-N'-nitro-N-nitrosoguanidine	70-25-7	
274	N-nitroso compounds	N-Nitrosodiphenylamine	86-30-6	
275	N-nitroso compounds	N-Nitrosodiethylamine (NDEA)	55-18-5	
276	N-nitroso compounds	N-Nitrosodi-n-butylamine (NDBA)	924-16-3	
277	N-nitroso compounds	N-Nitrosopyrrolidine (NPYR)	930-55-2	
278	N-nitroso compounds	N-Nitrosomorpholine (NMOR)	59-89-2	
279	other nitroso compounds	p-Nitrosodiphenylamine	156-10-5	not an N-nitroso

### **Polyaromatic hydrocarbons (PAHs)**

280	polyaromatic hydrocarbons (PAHs)	Anthracene	120-12-7	
281	polyaromatic hydrocarbons (PAHs)	Pyrene	129-00-0	
282	polyaromatic hydrocarbons (PAHs)	Polycyclic Aromatic Compounds (PACs)	130498-29-2	
283	polyaromatic hydrocarbons (PAHs)	benzo[e]pyrene	192-97-2	
284	polyaromatic hydrocarbons (PAHs)	Indeno[1,2,3-cd]pyren	193-39-5	
285	polyaromatic hydrocarbons (PAHs)	benzo[j]fluoranthene	205-82-3	
286	polyaromatic hydrocarbons (PAHs)	Benzo[b]fluoranthene	205-99-2	
287	polyaromatic hydrocarbons (PAHs)	Benzo[k]fluoranthene	207-08-9	
288	polyaromatic hydrocarbons (PAHs)	Acenaphthylen	208-96-8	
289	polyaromatic hydrocarbons (PAHs)	9,10-Benzophenanthren	217-59-4	
290	polyaromatic hydrocarbons (PAHs)	Chrysene	218-01-9	
291	polyaromatic hydrocarbons (PAHs)	benzo[a]pyrene; benzo[def]chrysene	50-32-8	
292	polyaromatic hydrocarbons (PAHs)	Dibenz[a,h]anthracene	53-70-3	
293	polyaromatic hydrocarbons (PAHs)	Benz[a]anthracene	56-55-3	
294	polyaromatic hydrocarbons (PAHs)	Coal tar pitch	65996-93-2	
295	polyaromatic hydrocarbons (PAHs)	Anthracene oil	90640-80-5	
296	polyaromatic hydrocarbons (PAHs)	Anthracene oil, anthracene paste	90640-81-6	
297	polyaromatic hydrocarbons (PAHs)	Anthracene oil, anthracenelow	90640-82-7	
298	polyaromatic hydrocarbons (PAHs)	Naphthalene	91-20-3	
299	polyaromatic hydrocarbons (PAHs)	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	
300	polyaromatic hydrocarbons (PAHs)	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	

	<b>Category</b>	<b>Name to list</b>	<b>CAS</b>	<b>NOTES</b>
301	polyaromatic hydrocarbons (PAHs)	Benzo[ghi]perylene	191-24-2	
302	polyaromatic hydrocarbons (PAHs)	Fluoranthene	206-44-0	
303	polyaromatic hydrocarbons (PAHs)	Acenaphthene	83-32-9	
304	polyaromatic hydrocarbons (PAHs)	Phenanthrene	85-01-8	
<b><u>Respirable particles</u></b>				
305	respirable particles	Aluminium oxide (particles of respirable size)	1344-28-1	NOTE - CAS applies also to other forms of this chemical which are not LT-1
306	respirable particles	Silica (particles of respirable size)	14464-46-1; 14808-60-7; 7631-86-9	
307	respirable particles	Titanium dioxide (particles of respirable size)	13463-67-7	NOTE - CAS applies also to other forms of this chemical which are not LT-1
<b><u>Solvents</u></b>				
308	solvent	1,4-Dioxane	123-91-1	
309	solvent	2-methoxypropanol	1589-47-5	
310	solvent	2-methoxypropyl acetate	70657-70-4	
311	solvent	Benzene	71-43-2	
312	solvent	Cyclododecane	294-62-2	
313	solvent	Dimethyl formamide (DMF)	68-12-2	
314	solvent	Ethanol	64-17-5	
315	solvent	Furan	110-00-9	
316	solvent	hexamethylphosphoramide (HEMPA)	680-31-9	
317	solvent	Methanol	67-56-1	
318	solvent	Methyl isobutyl ketone	108-10-1	
319	solvent	N,N-dimethylacetamide	127-19-5	
320	solvent	Nitrilotriacetic acid	139-13-9	
321	solvent	N-methyl-2-pyrrolidone	872-50-4	
322	solvent	N-methylformamide	123-39-7	
323	solvent	Toluene	108-88-3	
324	solvent	Ethylbenzene	100-41-4	

<b>Category</b>	<b>Name to list</b>	<b>CAS</b>	<b>NOTES</b>
<b><u>Petroleum distillates &amp; related chemicals</u></b>			
325	petroleum distillate (CMR cat 1A/1B)	extracts, petroleum, light naphthenic distillate solvent	64742-03-6
326	petroleum distillate (CMR cat 1A/1B)	distillate aromatic extract	64742-04-7
327	petroleum distillate (CMR cat 1A/1B)	extracts, petroleum, light paraffinic distillate solvent	64742-05-8
328	petroleum distillate (CMR cat 1A/1B)	extracts, petroleum, heavy naphthenic distillate solvent	64742-11-6
329	petroleum distillate (CMR cat 1A/1B)	distillates, petroleum, chemically neutralized middle	64742-30-9
330	petroleum distillate (CMR cat 1A/1B)	solvent-dewaxed heavy paraffinic petroleum distillates	64742-65-0
331	petroleum distillate (CMR cat 1A/1B)	benzin 140 - 300	8002-05-9
332	petroleum distillate (CMR cat 1A/1B)	naphtha	8030-30-6
333	petroleum distillate (CMR cat 1A/1B)	pitch	61789-60-4
334	petroleum distillate (CMR cat 1A/1B)	petroleum naphtha	64741-41-9
335	petroleum distillate (CMR cat 1A/1B)	hydrotreated light straight run (petroleum) distillates (petroleum), hydrotreated (mild) heavy	64742-49-0
336	petroleum distillate (CMR cat 1A/1B)	naphthenic (9ci); hydrotreated heavy paraffinic petroleum distillates	64742-52-5
337	petroleum distillate (CMR cat 1A/1B)	(mineral oil) distillates (petroleum), solvent-refined (mild) heavy	64742-54-7
338	petroleum distillate (CMR cat 1A/1B)	paraffinic (9ci) distillates (petroleum), solvent-refined (mild) light	64741-88-4
339	petroleum distillate (CMR cat 1A/1B)	paraffinic (9ci)	64741-89-5
340	petroleum distillate (CMR cat 1A/1B)	aromatic naphtha, type 1	64742-95-6
341	petroleum distillate (CMR cat 1A/1B)	aromatic petroleum derivative solvent	68477-31-6
342	petroleum distillate (CMR cat 1A/1B)	petrolatum	8009-03-8
343	additive/sealant	Bitumen	64742-93-4
344	coal distillate (CMR cat 1A/1B)	Coal Tar oil	65996-82-9

	<b>Category</b>	<b>Name to list</b>	<b>CAS</b>	<b>NOTES</b>
	<b><u>Metals/metalloids:</u></b>			
345	As	Arsenic & arsenic compounds	-	CAS for arsenic (the element) = 7440-38-2
346	Be	Beryllium & beryllium oxide	7440-41-7 / 1304-56-9	
347	Co	cobalt & cobalt compounds	-	CAS for cobalt (the element) = 7440-48-4
348	Ni	nickel and nickel compounds	-	CAS for nickel (the element) = 7440-02-0
349	Sb	Antimony & antimony compounds	-	CAS for antimony (the element) = 7440-36-0
350	V	Vanadium pentoxide	1314-62-1	
	<b><u>Others</u></b>			
351	-	(2-chloroethyl)(3-hydroxypropyl)ammonium chloride	40722-80-3	
352	-	(4-ethoxyphenyl)(3-(4-fluoro-3-phenoxyphenyl)propyl)dimethylsilane	105024-66-6	
353	-	(BHA) Butylated hydroxyanisole	25013-16-5	
354	-	1-(2-amino-5-chlorophenyl)-2,2,2-trifluoro-1,1-ethanediol, hydrochloride, containing < 0.1 % 4-chloroaniline (EC No 203-401-0)	214353-17-0	
355	-	2-butyl-3-hydroxy-5-thiocyclohexan-3-yl-cyclohex-2-en-1-one	94723-86-1	
356	-	2-nitroanisole	91-23-6	
357	-	2-nitronaphthalene	581-89-5	
358	-	2-Nitropropane	79-46-9	
359	-	2-nitrotoluene	88-72-2	
360	-	4,4'-Methylenbis(N-(1-methylpropyl)benzolamin)	5285-60-9	
361	-	4-Nitrobiphenyl	92-93-3	
362	-	5-Nitroacenaphthene	602-87-9	



Category	Name to list	CAS	NOTES
363 -	7-methoxy-6-(3-morpholin-4-yl-propoxy)-3H-quinazolin-4-one Containing ≥ 0.5 % formamide (EC No 200-842-0)	199327-61-2	
364 -	AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	
365 -	Aniline	62-53-3	
366 -	Azobenzene	103-33-3	
367 -	Carbon black	1333-86-4	
368 -	chloro-N,N-dimethylformiminium chloride	3724-43-4	
369 -	Colchicine	64-86-8	
370 -	Diazoaminobenzene	136-35-6	
371 -	Formaldehyde	50-00-0	
372 -	formamide	75-12-7	
373 -	Hydrazine	302-01-2	
374 -	hydrazobenzene	122-66-7	
375 -	hydroquinone (1,4-Dihydroxybenzene)	123-31-9	
376 -	methoxyacetic acid	625-45-6	
377 -	Methylazoxymethanol acetate	592-62-1	
378 -	Michler's base (N,N,N',N'-tetramethyl-4,4'-methylendianiline)	101-61-1	
379 -	N-(2-Naphthyl)anilin	135-88-6	
380 -	N,N-(dimethylamino)thioacetamide hydrochloride	27366-72-9	
381 -	N,N'-Bis-(1-ethyl-3-methylpentyl)-1,4-benzendiamin	139-60-6	
382 -	N,N-di-2-naphthyl-benzen-1,4-diamin (Diafen NN) N-[6,9-dihydro-9-[[2-hydroxy-1-(hydroxymethyl)ethoxy]methyl]-6-oxo-1H-purin-2-yl]acetamide	93-46-9	
383 -	O-isobutyl-N-ethoxy carbonylthiocarbamate	84245-12-5	
384 -	o-Phenylphenate, sodium	103122-66-3	
385 -	o-Phenylphenol	132-27-4	
386 -		90-43-7	

	<b>Category</b>	<b>Name to list</b>	<b>CAS</b>	<b>NOTES</b>
387	-	Phenolphthalein	77-09-8	
388	-	Phenylhydrazine	100-63-0	
389	-	phenylhydrazine hydrochloride	27140-08-5; 59-88-1	
390	-	phenylhydrazinium sulphate (2:1)	52033-74-6	
		potassium 1-methyl-3-morpholinocarbonyl-4-[3-(1-methyl-3-morpholinocarbonyl-5-oxo-2-pyrazolin-4-ylidene)-1-propenyl]pyrazole-5-olate containing < 0.5 %		
391	-	N,N-dimethylformamide (EC No 200-679-5),	183196-57-8	
392	-	Pyridine	110-86-1	
393	-	tetrahydrothiopyran-3-carboxaldehyde	61571-06-0	
394	-	Thioacetamide	62-55-5	
395	-	Thiourea	62-56-6	
396	-	Toluene diisocyanate (1,3-)	26471-62-5	
397	-	toluene diisocyanate (2,4-)	584-84-9	
398	-	Trimethyl phosphate	512-56-1	
399	alkylating agent	Diethyl sulfate	64-67-5	
400	alkylating agent	Dimethyl sulfate	77-78-1	
401		Benzophenone	119-61-9	
		benzophenone, 4,4'-bis(dimethylamino)- [Michler's ketone]	90-94-8	
402				
403	biocide	Cycloheximide	66-81-9	
404	Biocide / antiseptic (inc. Leather)	Dichlorophene [2,2'-Methylenbis(4-chlorophenol)]	97-23-4	
405	Biocide / antiseptic (inc. Leather)	Metam sodium	137-42-8	
406	Biocide / fragrance	Safrole [5-allyl-1,3-benzodioxole]	94-59-7	
407	-	Bisphenol A	80-05-7	
408		boric acid	10043-35-3; 1303-86-2	
			12179-04-3; 1303-96-4; 1330-43-4; 12267-73-	
409		Boric acid, disodium salt	1; 13840-56-7	
410		borate, zinc salt	1332-07-6	
411	chlorinated ether	Bis(chloromethyl)ether	542-88-1	

	<b>Category</b>	<b>Name to list</b>	<b>CAS</b>	<b>NOTES</b>
412	chlorofluorophenol	2-chloro-6-fluoro-phenol	2040-90-6	
413	dimethyldithiocarbamates	dimethyldithiocarbamate, Potassium salt	128-03-0	
414	dimethyldithiocarbamates	dimethyldithiocarbamate, Sodium salt	128-04-1	
415	dimethyldithiocarbamates	Disodium ethylenebis(N,N'-dithiocarbamate)	142-59-6	
416	Dimethylhydrazines	1,2-Dimethylhydrazine	540-73-8	
417	Dimethylhydrazines	1,1-Dimethylhydrazine (UDMH)	57-14-7	
418	dinitrobenzenes	dinitrobenzenes	99-65-0	
419	flame retardant	2-ethylhexyl diphenyl phosphate	1241-94-7	
420	fungicide	Carbendazim (N-2-benzimidazolecarbamic acid methyl ester)	10605-21-7	
421	-	Carbon disulfide	75-15-0	
422	-	Ethylene thiourea	96-45-7	
423	-	Hexachlorobutadiene	87-68-3	
424	-	N-methylacetamide	79-16-3	
425	perboric acid compounds	perboric acid, sodium salt	10332-33-9; 10486-00-7; 11138-47-9; 12040-72-1; 13517-20-9; 15120-21-5; 37244-98-7;	
426	polymer additive	Diazene-1,2-dicarboxamide [C,C'-azodi(formamide), ADCA]	123-77-3	
427	polymer cross-linker	Triglycidylisocyanurate (TGIC)	2451-62-9	
428	Polymerisation inhibitor	N-(1,4-Dimethylpentyl)-N'-phenyl-benzen-1,4-diamin	3081-01-4	
429	Styrene	Styrene	100-42-5	
430	Surfactant	Diethanolamine	111-42-2	
431	synthetic musk	musk xylene	81-15-2	
432	tert-butyl, benzotriazole-phenols	2-(2H-Benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)fenol	25973-55-1	UV stabiliser
433	tert-butyl, benzotriazole-phenols	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)-phenol	3147-75-9	UV stabiliser
434	tert-butyl, benzotriazole-phenols	2-(2'-Hydroxy-3,5'-di-tert.butylphenyl)-benzotriazole	3846-71-7	UV stabiliser
435	UV stabiliser	3-(4-methylbenzylidene) camphor	36861-47-9	