

管理文書

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**NAMICS Green Procurement Standards**  
**Environmentally hazardous chemical substances list**

23rd Edition

Revised : 2026/6/1



NAMICS CORPORATION  
Quality Assurance Division

## NAMICS Green Procurement Standards Environmentally hazardous chemical substances list Ver.23

No. 7210L002CM-10  
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**Table-1 Regulated substances**

Reference No	Substances Name	CAS No.	Regulated Level	Scope	Allowable concentration	Analyzed target	Laws and regulations
P1001	Cadmium and its compounds	—	Level 1	Parts composed of metals containing zinc (e.g. brass, hot dip galvanizing, etc.)	Not intentionally added and less than 100 ppm	Raw materials, Other materials	EU RoHS Directive (EU)2015/863 Customer requirements
				All uses other than the above column	Not intentionally added and less than 5ppm	Raw materials, Other materials	
P1002	Lead and its compounds	—	Level 1	All uses other than the column below	Not intentionally added and less than 50ppm	Raw materials, Other materials	EU RoHS Directive (EU)2015/863 Customer requirements
				Parts composed of metals containing tin (e.g. solder, etc.)	Not intentionally added and equal to or less than 500ppm		
P2004	Lead and its compounds	—	Level 2	Glass frit	Not intentionally added and less than 100ppm	Raw materials, Other materials	
P1003	Mercury and its compounds	—	Level 1	All uses	Not intentionally added and less than 2ppm	Raw materials, Other materials	EU RoHS Directive (EU)2015/863 Customer requirements
P1004	Hexavalent chromium compounds	—	Level 1	All uses other than the column below	Not intentionally added and less than 10ppm	Raw materials, Other materials	EU RoHS Directive (EU)2015/863 Customer requirements
				P2009	Hexavalent chromium compounds		
P1005	Total-concentration of four heavy metals (cadmium, lead, mercury, and hexavalent chromium) contained in packaging components and materials	—	Level 1	All indirect materials	"Less than 50 ppm" is determined as the allowable total-concentration of four heavy metals (cadmium, lead, mercury, and hexavalent chromium) contained in each part, ink, or paint that constitutes a package.	Indirect materials	EU Directive 94/62/EC on packing and packing waste and its amendments
P1006	Polybrominated biphenyls (PBB)	—	Level 1	All uses	Not intentionally added and less than 5ppm	All materials	EU RoHS Directive (EU)2015/863 Customer requirements
P1007	Polybrominated diphenylethers (PBDE) (including decabromodiphenyl ether [DecaBDE])	—	Level 1	All uses	Not intentionally added and less than 10ppm	All materials	EU RoHS Directive (EU)2015/863 Customer requirements
P1008	Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	Level 1	All uses	Not intentionally added and less than 50ppm	—	EU REACH Regulation(EC) No.1907/2006 The Stockholm Convention on POPs (EC) No 850/2004 Japan Chemical Substances Control Law
P1009	Polychlorinated biphenyls (PCB)	—	Level 1	All uses	Not intentionally added and less than 0.1ppm	—	Japan Chemical Substances Control Law The Stockholm Convention on POPs (EC) No 850/2004
P1010	Polychlorinated naphthalenes (PCN)	—	Level 1	All uses	Not intentionally added and less than 5ppm	—	Japan Chemical Substances Control Law The Stockholm Convention on POPs (EC) No 850/2004
P1011	Polychlorinated terphenyls (PCT)	—	Level 1	All uses	Not intentionally added and less than 2ppm	—	EU REACH Regulation(EC) No.1907/2006 Annex X VII Customer requirements
P1012	Chlorinated paraffins (CP)	85535-84-8 84082-38-2 71011-12-6 85536-22-7 85535-85-9 85535-86-0	Level 1	All uses	Not intentionally added and less than 100ppm	—	The Stockholm Convention on POPs (EC) No 850/2004 Customer requirements Japan Chemical Substances Control Law
P1013	Polyvinyl chloride (PVC) and PVC blends	—	Level 1	All uses (Exemption-Insulating tapes, labels)	Not intentionally added and less than 800ppm	—	EU REACH Regulation(EC) No.1907/2006 Annex X VII
P1014	Hydrofluorocarbon (HFC), Perfluorocarbon (PFC), Sulfur hexafluoride(SF6)	—	Level 1	All uses	Not intentionally added and less than 1000ppm	—	EU Regulation (EC) No.842/2006
P1015	Ozone depleting substances (ODS)	—	Level 1	All uses	Not intentionally added and less than 1000ppm	—	EU Regulation (EC) No.2037/2000
P1016	Hydrochlorofluorocarbon (HCFC)	—	Level 1	All uses	Not intentionally added and less than 1000ppm	—	EU Regulation (EC) No.1005/2009
P1017	Perfluorooctane sulfonates (PFOS) and individual salts and related substances of PFOS	—	Level 1	All uses	Not intentionally added and 25ppb total sum of PFOS, and its individual salts and related substances.	—	EU REACH Regulation(EC) No.1907/2006 Annex X VII The Stockholm Convention on POPs (EC) No 850/2004 Japan Chemical Substances Control Law
P1018	Perfluorooctanoic Acid (PFOA) and individual salts and related substances of PFOA	refer to Appendix-1.1	Level 1	All uses	Not intentionally added and 25ppb total sum of PFOA, and its individual salts and related substances.	—	Norway Product regulations Customer requirements The Stockholm Convention on POPs (EC) No 850/2004 Japan Chemical Substances Control Law
P1019	Beryllium and its compounds	—	Level 1	All uses	Not intentionally added and less than 800ppm	—	EU WEEE Directive 2002/96/EC Customer requirements
P1020	Cobalt dichloride	7646-79-9	Level 1	All uses	Not intentionally added and less than 800ppm	—	EU REACH Regulation(EC) No.1907/2006 Annex X VII
P1021	Arsenic and its compounds	—	Level 1	All uses	Not intentionally added and less than 50ppm	—	EU REACH Regulation(EC) No.1907/2006 Customer requirements
P1022	Asbestos	—	Level 1	All uses	Not intentionally added and less than 1000ppm	—	Germany Chemicals Prohibition Ordinance

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**Table-1 Regulated substances**

Reference No	Substances Name	CAS No.	Regulated Level	Scope	Allowable concentration	Analyzed target	Laws and regulations
P1023	Specific azo compounds (Azodyes that form specific amine compounds and specific amine compounds.)	refer to Appendix-1.2	Level 1	All uses	Not intentionally added and less than 20ppm	—	EU REACH Regulation(EC) No.1907/2006 Annex X VII
P1024	Formaldehyde	50-00-0	Level 1	All uses other than the column below	Not intentionally added and less than 300ppm	—	Customer requirements
R001	Formaldehyde	50-00-0	Restricted Substances	Impurities or unreacted components		—	
P1025	Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	68921-45-9	Level 1	All uses	Not intentionally added	—	Canada Prohibition of Certain Toxic Substances Regulations
P1026	Dimethyl fumarate (DMF)	624-49-7	Level 1	All uses	Not intentionally added and less than 0.1ppm	—	EU REACH Regulation(EC) No.1907/2006
P1027	Specific Polycyclic aromatic hydrocarbons (PAHs)	refer to Appendix-1.3	Level 1	All uses	Not intentionally added and less than 1ppm	—	EU REACH Regulation(EC) No.1907/2006 Annex X VII Customer requirements
P1028	Benzene	71-43-2	Level 1	All uses	Not intentionally added and less than 800ppm	—	EU REACH Regulation(EC) No.1907/2006 Annex X VII
P1029	Hexachlorobenzene	118-74-1	Level 1	All uses	Not intentionally added and less than 10ppm	—	EU POPs Regulation Annex 1
P1030	Minerals from Conflict-Affected and High-Risk Areas(CAHRAs) <a href="https://www.cahraslist.net/cahras">https://www.cahraslist.net/cahras</a> (Gole, Tin, Tantalum, Tungsten and Cobalt, Mica, Nickel, Graphite, Lithium, Copper)	—	Level 1	All uses	Not intentionally added	—	OECD Annex II
P1031	Radioactive substances [Uranium (U), Plutonium (Pu), Radon (Rn),Americium (Am), Thorium(Th), Cesium(Cs), Strontium (Sr),etc]	—	Level 1	All uses	Not intentionally added and less than 1000ppm	—	Japan Laws Concerning the Prevention from Radiation Hazards due to Radioisotopes and Others
P1032	Red phosphorus / Yellow phosphorus	—	Level 1	All uses	Not intentionally added and less than 800ppm	—	Customer requirements
P1033	Specific phthalates (DEHP/DBP/BBP/DIBP)	refer to Appendix-1.4	Level 1	All uses	Not intentionally added and less than 50ppm	All materials	EU RoHS Directive (EU)2015/863 Customer requirements
P1034	Tris(2-chloroethyl) phosphate (TCEP) Tris (1-chloro-2-propyl) phosphate (TCPP) Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	115-96-8 13674-84-5 13674-87-8	Level 1	All uses	Not intentionally added and less than 1000ppm	—	EU REACH Regulation(EC) No.1907/2006 Customer requirements
P1035	Perfluorohexanesulfonic acid (PFHxS) and its salts and related substances	—	Level 1	All uses	Not intentionally added and 25ppb total sum of PFHxS, and its individual salts. 1000ppb total sum of PFHxS related substances.	—	Customer requirements The Stockholm Convention on POPs (EC) No 850/2004 Japan Chemical Substances Control Law
P1036	Decabromodiphenylethane (DBDPE)	84852-53-9	Level 1	All uses	Not intentionally added and less than 500ppm	—	Customer requirements
P1037	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.0 2,13.05,10]octadeca-7,15-diene ("Dechlorane Plus™")	—	Level 1	All uses	Not intentionally added and less than 1ppm	—	Customer requirements The Stockholm Convention on POPs (EC) No 850/2004 Japan Chemical Substances Control Law
P1038	Long-chain perfluoroalkyl carboxylate (LCPFACs) and perfluoroalkyl sulfonate chemicals	—	Level 1	All uses	Not intentionally added	—	Customer requirements
P1039	TSCA Priority chemicals (PBT, First 10 Chemical Substances)	refer to Appendix-1.5	Level 1	All uses	Not intentionally added and less than 1000ppm	—	Customer requirements The Stockholm Convention on POPs (EC) No 850/2004 Japan Chemical Substances Control Law
P1040	Acrylamide (monomer)	79-06-1 2680-03-7	Level 1	All uses	Not intentionally added and less than 5ppm	—	Customer requirements
P1041	Dioxins and Furans	refer to Appendix-1.6	Level 1	All uses	Not intentionally added and less than 800ppm	—	Customer requirements
P1042	Chlorinated Phenols	refer to Appendix-1.7	Level 1	All uses	Not intentionally added and less than 0.1ppm	—	Customer requirements
P1043	Colorants	refer to Appendix-1.8	Level 1	All uses	Not intentionally added and less than 10ppm	—	Customer requirements
P1044	Perfluorohexanoic acid (PFHxA) and its salts and related substances	—	Level 1	All uses	Not intentionally added and 25ppb total sum of PFHxA, and its individual salts. 1000ppb total sum of PFHxA related substances.	—	Customer requirements
P1045	Methyl-phenol compounds	95-48-7 106-44-5 108-39-4 1319-77-3	Level 1	All uses	Not intentionally added and less than 10 ppm total content	—	Customer requirements
P1046	Pesticides	refer to Appendix-1.9	Level 1	All uses	Not intentionally added and less than 0.5 ppm total sum of pesticides	—	Customer requirements The Stockholm Convention on POPs (EC) No 850/2004 Japan Chemical Substances Control Law
P1047	UV stabilizers	3846-71-7 3864-99-1 25973-55-1 36437-37-3	Level 1	All uses	Not intentionally added and less than 1ppm	—	Customer requirements The Stockholm Convention on POPs (EC) No 850/2004 Japan Chemical Substances Control Law
P1048	Perfluorocarboxylic acids (PFCAs) C9-C21 and its salts and related substances	—	Level 1	All uses	Not intentionally added and 0.000025 wt% (25ppb) total sum of PFCAs, and its individual salts and related substances.	—	Customer requirements The Stockholm Convention on POPs (EC) No 850/2004
P1049	Polybrominated terphenyl (PBT)	—	Level 1	All uses	Not intentionally added and less than 5ppm	—	Customer requirements



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**Table-2 Restricted Substances**

Reference No	Substances Name	CAS No.	Regulated Level	Scope	Allowable concentration	Analyzed target	Laws and regulations
R002	Other phthalates (Exemption-Regulated Substances)	refer to Appendix-2.1	Restricted Substances	All uses	Less than 800ppm	—	Customer requirements
R003	Boric acid, Specific sodium borates	refer to Appendix-2.2	Restricted Substances	All uses	Less than 1000ppm	—	EU REACH Regulation(EC) No.1907/2006
R004	4-(1,1,3,3-tetramethylbutyl) phenol	140-66-9	Restricted Substances	All uses	Less than 1000ppm	—	EU REACH Regulation(EC) No.1907/2006
R005	N,N-dimethylacetamide (DMAC)	127-19-5	Restricted Substances	All uses	Less than 1000ppm	—	EU REACH Regulation(EC) No.1907/2006
R006	Ethylene glycol dimethyl ether (EGDME)	110-71-4	Restricted Substances	All uses	Less than 1000ppm	—	EU REACH Regulation(EC) No.1907/2006
R007	Trixylyl phosphate (TXP)	25155-23-1	Restricted Substances	All uses	Less than 1000ppm	—	EU REACH Regulation(EC) No.1907/2006
R008	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	Restricted Substances	All uses	Less than 1000ppm	—	EU REACH Regulation(EC) No.1907/2006
R009	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	—	Restricted Substances	All uses	Less than 1000ppm	—	EU REACH Regulation(EC) No.1907/2006
R010	REACH SVHC (Substances of Very High Concern) *Follow the latest SVHC list <a href="https://echa.europa.eu/candidate-list-table">https://echa.europa.eu/candidate-list-table</a>	—	Restricted Substances	All uses	Less than 1000ppm	—	EU REACH Regulation(EC) Customer requirements
R011	Acrylates monomers Group2	refer to Appendix-2.3	Restricted Substances	All uses	Less than 1000ppm	—	Customer requirements
R012	Alkylphenol Ethoxylates and Alkylphenols(APEO/AP)	refer to Appendix-2.4	Restricted Substances	All uses	Less than 100 ppm total sum of Alkylphenol Ethoxylates and Alkylphenols(APEO/AP)	—	Customer requirements
R013	Bisphenols (Bisphenol A, Bisphenol F, Bisphenol S)	refer to Appendix-2.5	Restricted Substances	All uses	Less than 20ppm	—	Customer requirements
R014	Diphenylamine	122-39-4	Restricted Substances	All uses	Less than 20ppm	—	Customer requirements
R015	n-Hexane	110-54-3	Restricted Substances	All uses	Less than 1000ppm	—	Customer requirements
R016	Chlorinated organic solvents	refer to Appendix-2.6	Restricted Substances	All uses	Less than 1000ppm	—	Customer requirements
R017	Solvents	refer to Appendix-2.7	Restricted Substances	All uses	Not intentionally added	—	Customer requirements
R018	Organic fluorine compounds (Exemption - P2003)	-	Restricted Substances	All uses	Not intentionally added and less than 50ppm	—	USA State of Maine : An Act to Stop Perfluoroalkyl and Polyfluoroalkyl Substances Pollution Customer requirements
R019	Antimony and its compounds	—	Restricted Substances	All uses	Less than 800ppm	—	Customer requirements
R020	Phenol	108-95-2	Restricted Substances	All uses	Less than 5ppm	—	Customer requirements
R021	Organotin Compounds	refer to Appendix-2.8	Restricted Substances	All uses	Less than 1000 ppm total content	—	Customer requirements
R022	Biocides	refer to Appendix-2.9	Restricted Substances	All uses	Not intentionally added	—	Customer requirements
R023	EU REACH Regulation(EC) Annex XVII	Substances restricted under REACH - ECHA	Restricted Substances	All uses	Not intentionally added and less than 1000ppm	—	EU REACH Regulation(EC) Annex XVII

**Table-3 Managed Substances**

Reference No	Substances Name	CAS No.	Classification	Scope	Allowable concentration	Analyzed target	Laws and regulations
M001	Other Polycyclic aromatic hydrocarbons (PAHs) (Exemption-Regulated Substances)	refer to Appendix-3.1	Managed Substances	All uses	—	—	Customer requirements
M002	Bismuth and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M003	Other brominated organic compounds (Exemption - PBB,PBDE)	—	Managed Substances	All uses	—	—	Customer requirements
M004	Other chlorinated organic compounds (Exemption-PCB, PCN,PCT,SCCP)	—	Managed Substances	All uses	—	—	Customer requirements
M005	Cobalt and its compounds (Exemption - Cobalt dichloride)	—	Managed Substances	All uses	—	—	Customer requirements
M006	Inorganic Fluorine Compounds	—	Managed Substances	All uses	—	—	Customer requirements
M007	Iodine and its compounds excluding the regulated substances specified by these standards	—	Managed Substances	All uses	—	—	Customer requirements
M008	chemSHERPA Declarable Substance Ver. (latest Version) excluding the regulated substances specified by these standards	refer to Appendix-3.2	Managed Substances	All uses	—	—	Joint Article Management Promotion-consortium (JAMP)
M009	Low molecular siloxane ( $\leq 20$ mer)	—	Managed Substances	All uses	—	—	Customer requirements
M010	Nanomaterials (Particle size : 1~100nm)	—	Managed Substances	All uses	—	—	Customer requirements
M011	Phosphorus and its compounds (Exemption-Red / Yellow phosphorus)	—	Managed Substances	All uses	—	—	Customer requirements

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**Table-3 Managed Substances**

Reference No	Substances Name	CAS No.	Classification	Scope	Allowable concentration	Analyzed target	Laws and regulations
M012	Cyan compounds	—	Managed Substances	All uses	—	—	Customer requirements
M013	Sulfur and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M014	Zinc and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M015	Titanium and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M016	Volatile organic compounds (VOCs)	refer to Appendix-3.3	Managed Substances	All uses	—	—	Customer requirements
M017	Rare metal	—	Managed Substances	All uses	—	—	Customer requirements
M018	TSCA Priority chemicals (20 High-Priority Substances)	refer to Appendix-3.4	Managed Substances	All uses	—	—	Customer requirements
M019	Barium and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M020	Chromium, extractable (Excluded: Hexavalent chromium)	—	Managed Substances	All uses	—	—	Customer requirements
M021	Isocyanates (monomers)	refer to Appendix-3.5	Managed Substances	All uses	—	—	Customer requirements
M022	Nickel and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M023	Mica	—	Managed Substances	All uses (including the case that mica is used as a raw material)	—	—	Customer requirements
M024	Benzyl Alcohol	100-51-6	Managed Substances	All uses	—	—	Customer requirements
M025	Glycidyl ether monomers	refer to Appendix-3.6	Managed Substances	All uses	—	—	Customer requirements
M026	Aluminum and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M027	Lithium and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M028	Magnesium and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M029	Copper and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M030	Acrylates monomers Group3	—	Managed Substances	All uses	—	—	Customer requirements
M031	Biphenyl-4-yl(phenyl)methanone	2128-93-0	Managed Substances	All uses	—	—	Customer requirements
M032	Methanone, 1,1'-(phenylphosphinylidene)bis[1-(2,4,6-trimethylphenyl)-	162881-26-7	Managed Substances	All uses	—	—	Customer requirements
M033	Ethyl (mesitylcarbonyl)phenylphosphinate	84434-11-7	Managed Substances	All uses	—	—	Customer requirements
M037	Selenium compounds	—	Managed Substances	All uses	—	—	Customer requirements
M038	Gold and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M039	Tin and its compounds (Excluded: Organotin compounds)	—	Managed Substances	All uses	—	—	Customer requirements
M040	Tantalum and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M041	Tungsten and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M042	Graphite and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M043	Methanol	67-56-1	Managed Substances	All uses	—	—	Customer requirements
M044	Manganese and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M045	Vanadium and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M046	Silver and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M047	Iron and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M048	Molybdenum and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M049	Palladium and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M050	Platinum and its compounds	—	Managed Substances	All uses	—	—	Customer requirements
M051	Epichlorohydrin	106-89-8	Managed Substances	All uses	—	—	Customer requirements
M052	Methyl phenylglyoxylate	15206-55-0	Managed Substances	All uses	—	—	Customer requirements
M053	styrene	100-42-5	Managed Substances	All uses	—	—	Customer requirements

**Appendix-1.1 List of Perfluorooctanoic Acid (PFOA) and individual salts and esters of PFOA**

Substance Name	CAS No.
Pentadecafluorooctanoic acid	335-67-1
Ammonium pentadecafluorooctanoate	3825-26-1
Sodium pentadecafluorooctanoate	335-95-5
Potassium perfluorooctanoate	2395-00-8
Silver(1+) perfluorooctanoate	335-93-3
Pentadecafluorooctyl fluoride	335-66-0
Methyl perfluorooctanoate	376-27-2
Ethyl perfluorooctanoate	3108-24-5
PFOA related substances	-

**Appendix-1.2 Specific azo compounds (Azodyes that form specific amine compounds and specific amine compounds.)**

Substance Name	CAS No.
4-aminodiphenyl	92-67-1
benzidine	92-87-5
4-chloro-o-toluidine; 4-chloro-2-methylaniline	95-69-2
2-naphthylamine	91-59-8
o-aminoazotoluene	97-56-3
2-amino-4-nitrotoluene; 5-nitro-o-toluidine	99-55-8
p-chloroaniline	106-47-8
2,4-diaminoanisole	615-05-4
3,3'-dichlorobenzidine	91-94-1
3,3'-dimethoxybenzidine	119-90-4
3,3'-dimethylbenzidine	119-93-7
3,3'-dimethyl-4,4'-diaminodiphenylmethane; 4,4'-diamino-3,3'-diphenylmethane	838-88-0
p-cresidine; 6-methoxy-m-toluidine	120-71-8
4,4'-methylene-bis-(2-chloroaniline)	101-14-4
4,4'-oxideaniline	101-80-4
4,4'-thiodianiline; 4,4'-diaminodiphenylsulfide	139-65-1
o-toluidine	95-53-4
2,4-toluylenediamine; 4-methyl-m-phenylenediamine	95-80-7
2,4,5-trimethylaniline	137-17-7
o-anisidine	90-04-0
4-aminoazobenzene	60-09-3
4-Chloro-2-toluidine hydrochloride	3165-93-3
2,4-Diaminoanisole sulfate	39156-41-7
2-Naphthylamine acetate	553-00-4
2,4,5-Trimethylaniline hydrochloride	21436-97-5
2,4-Xylydine	95-68-1
2,6-Xylydine	87-62-7

**Appendix-1.3 List of Specific Polycyclic aromatic hydrocarbons (PAHs)**

Substance Name	CAS No.
Benzo[a]pyrene	50-32-8
Benzo[e]pyrene	192-97-2
Benzo[a]anthracene	56-55-3, 1718-53-2
Chrysene	218-01-9
Benzo[b]fluoranthene	205-99-2
Benzo[j]fluoranthene	205-82-3
Benzo[k]fluoranthene	207-08-9
Dibenzo[a,h]anthracene	53-70-3

**Appendix-1.4 List of Specific phthalates (DEHP/DBP/BBP/DBP)**

Substance Name	CAS No.
Bis (2-ethylhexyl)phthalate; Di (2-ethylhexyl) phthalate	117-81-7
Dibutyl phthalate; Di-n-butyl phthalate	84-74-2
Benzyl butyl phthalate; Butyl benzyl phthalate	85-68-7
Diisobutyl phthalate; Di-i-butyl phthalate	84-69-5

**Appendix-1.5 TSCA Priority chemicals (PBT, First 10 Chemical Substances)**

Substance Name	CAS No.
Decabromodiphenyl ether (DecaBDE)	1163-19-5
Phenol, Isopropylated Phosphate (PIP) (3 : 1)	68937-41-7
2, 4, 6 -Tris (tert-butyl) phenol (TTBP)	732-26-3
Pentachlorothiophenol (PCTP)	133-49-3
Hexachlorobutadiene (HCBD)	87-68-3
Methylene Chloride	75-09-2
1-Bromopropane	106-94-5
Cyclic Aliphatic Bromide Cluster (HBCD)	25637-99-4 3194-55-6 3194-57-8
Asbestos	1332-21-4
Carbon Tetrachloride	56-23-5
1,4-dioxane	123-91-1
N-Methylpyrrolidone (NMP)	872-50-4
Perchloroethylene	127-18-4
Pigment Violet 29	81-33-4
Trichloroethylene (TCE)	79-01-6

**Appendix-1.6 Dioxins and Furans**

Substance Name	CAS No.
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0
2,3,7,8-Tetrabromodibenzo-p-dioxin	50585-41-6
1,2,3,7,8-Pentabromodibenzo-p-dioxin	109333-34-8
2,3,7,8-Tetrabromodibenzofuran	67733-57-7
2,3,4,7,8-Pentabromodibenzofuran	131166-92-2
1,2,3,4,7,8-Hexabromodibenzo-p-dioxin	110999-44-5
1,2,3,6,7,8-Hexabromodibenzo-p-dioxin	110999-45-6
1,2,3,7,8,9-Hexabromodibenzo-p-dioxin	110999-46-7
1,2,3,7,8-Pentabromodibenzofuran	107555-93-1

**Appendix-1.7 Chlorinated Phenols**

Substance Name	CAS No.
2,3,4,5-Tetrachlorophenol (2,3,4,5-TeCP)	4901-51-3
2,3,4,6-Tetrachlorophenol (2,3,4,6-TeCP)	58-90-2
2,3,5-Trichlorophenol (2,3,5-TCP)	933-78-8
2,3,5,6-Tetrachlorophenol (2,3,5,6-TeCP)	935-95-5
2,3,6-Trichlorophenol (2,3,6-TCP)	933-75-5
2,4,6-Trichlorophenol (2,4,6-TCP)	88-06-2
3,4,5-Trichlorophenol (3,4,5-TCP)	609-19-8
Pentachlorophenol and its salts and esters	-
Tetrachlorophenol, including isomers	25167-83-3
Trichlorophenol, including isomers	25167-82-2

**Appendix-1.8 Colorants**

Substance Name	CAS No.
Acid Red 26	3761-53-3
Basic Red 9	569-61-9
Basic Violet 14	632-99-5
Direct Black 38	1937-37-7
Direct Blue 6	2602-46-2
Direct Red 28	573-58-0
Direct Yellow 1	6472-91-9
Disperse Blue 1	2475-45-8
Disperse Orange 11	82-28-0
Disperse Yellow 3	2832-40-8
Quinoline	91-22-5
Pigment Yellow 34	1344-37-2
Pigment Red 104	12656-85-8
Disperse Blue 3	2475-46-9
Disperse Blue 7	3179-90-6
Disperse Blue 26	3860-63-7
Disperse Blue 35	12222-75-2
Disperse Blue 102	12222-97-8
Disperse Blue 106	12223-01-7
Disperse Blue 124	61951-51-7
Disperse Brown 1	23355-64-8
Disperse Orange 1	2581-69-3
Disperse Orange 3	730-40-5
Disperse Orange 37/59/76	12223-33-5
Disperse Red 1	2872-52-8
Disperse Red 11	2872-48-2
Disperse Red 17	3179-89-3
Disperse Yellow 1	119-15-3
Disperse Yellow 9	6373-73-5
Disperse Yellow 39	12236-29-2
Disperse Yellow 49	54824-37-2
Disperse Yellow 64	10319-14-9
Pigment Black 25	68186-89-0
Pigment Yellow 157	68610-24-2
Solvent Yellow 14	842-07-9
4-Amino-3-fluorophenol	399-95-1
Acid Violet 49	1694-09-3
Basic Blue 26	2580-56-5
Basic Violet 1	8004-87-3
Basic Violet 3	548-62-9 603-48-5 14426-25-6
D&C Orange No. 17	3468-63-1
D&C Red No. 8	2092-56-0
D&C Red No. 9	5160-02-1
D&C Red No. 19	81-88-9
Disperse Orange 149	85136-74-9
Disperse Yellow 23	6250-23-3
Malachite Green	10309-95-2
Navy Blue	118685-33-9
Solvent Blue 4	6786-83-0

**Appendix-1.9 Pesticides**

Substance Name	CAS No.
Aldrine	309-00-2
Azinphos ethyl	2642-71-9
Azinphos methyl	86-50-0
Bromophos-ethyl	4824-78-6
Captafol	2425-06-1
Carbaryl	63-25-2

**Appendix-1.9 Pesticides**

Substance Name	CAS No.
Quintozene (pentachlorobenzene)	82-68-8
Strobane	8001-50-1
Telodrin	297-78-9
Toxaphene	8001-35-2
Tribufos (DEF)	78-48-8
2,4,5-Trichlorophenoxyacetic acid, salts and compounds	93-76-5
2-(2,4,5-Trichlorophenoxy)propionic acid, salts and compounds	93-72-1
Trifluralin	1582-09-8
Chlordane	54-74-9
Chlordecone	143-50-0
Chlordimeform	6164-98-3
Chlorfenvinphos	470-90-6
Coumaphos	56-72-4
Cyfluthrin	68359-37-5
Cyhalothrin, $\lambda$ -	91465-08-6
Cypermethrin	52315-07-8
Deltamethrin	52918-63-5
Demeton	919-86-8
Diazinon	333-41-5
<i>o,p'</i> -Dichlorodiphenyldichloroethane ( <i>o,p'</i> -DDD)	53-19-0
<i>p,p'</i> -Dichlorodiphenyldichloroethane ( <i>p,p'</i> -DDD)	72-54-8
<i>o,p'</i> -Dichlorodiphenyldichloroethylene ( <i>o,p'</i> -DDE)	3424-82-6
<i>p,p'</i> -Dichlorodiphenyldichloroethylene ( <i>p,p'</i> -DDE)	72-55-9
<i>o,p'</i> -Dichlorodiphenyltrichloroethane ( <i>o,p'</i> -DDT) and its isomers; preparations containing DDT and its isomers	789-02-6
<i>p,p'</i> -Dichlorodiphenyltrichloroethane ( <i>p,p'</i> -DDT) and its isomers; preparations containing DDT and its isomers	50-29-3
2,4-Dichlorophenoxyacetic acid, its salts and compounds	94-75-7
Dichlorprop	120-36-5
Dicrotophos	141-66-2
Dieldrine	60-57-1
Dimethoate	60-51-5
Dinoseb and salts	88-85-7
Endosulfan, alpha	959-98-8
Endosulfan, beta	33213-65-9
Endrine	72-20-8
Esfenvalerate	66230-04-4
Ethyl parathion	56-38-2
Fenvalerate	51630-58-1
Heptachlor	76-44-8
Heptachloroepoxide	1024-57-3
Hexachlorobenzene	118-74-1
Hexachlorocyclohexane (HCH), all isomers	608-73-1
Isodrin	465-73-6
Kelevane	4234-79-1
Lindane	58-89-9
Malathion	121-75-5
MCPA	94-74-6
MCPB	94-81-5
Mecoprop	93-65-2
Methamidophos	10265-92-6
Methoxychlor	72-43-5
Methyl parathion	298-00-0
Mevinphos	7786-34-7
Mirex	2385-85-5
Monocrotophos	6923-22-4
Perthane	72-56-0
Profenophos	41198-08-7
Propetamphos	31218-83-4
Quinalphos	13593-03-8

**Appendix-1.10 N-Nitrosamines**

Substance Name	CAS No.
N-Nitrosodibutylamine	924-16-3
N-Nitrosodiethanolamine	1116-54-7
N-Nitrosodiethylamine	55-18-5
N-Nitrosodiisopropylamine	601-77-4
N-Nitrosodimethylamine	62-75-9
N-Nitrosodiphenylamine	86-30-6
N-Nitrosodipropylamine	621-64-7
N-Nitrosoethylphenylamine	612-64-6
N-Nitrosomethylethylamine	10595-95-6
N-Nitrosomethylphenylamine	614-00-6
N-Nitrosomorpholine	59-89-2
N-Nitrosopiperidine	100-75-4
N-Nitrosopyrrolidine	930-55-2

**Appendix-1.11 Acrylates monomers Group1**

Substance Name	CAS No.
1,6-Hexanediol diacrylate	13048-33-4
2-(2-Ethoxyethoxy)ethyl acrylate	7328-17-8
2-Acryloyloxyethyl butylcarbamate	63225-53-6
2-Phenoxyethyl acrylate(PHEA)	48145-04-6
4-tert-Butylcyclohexyl acrylate(TBCHA)	84100-23-2
Butanediol diacrylate	1070-70-8
Isobornyl acrylate	5888-33-5
Tetrahydrofurfuryl acrylate	2399-48-6
Trimethylo Ipropane triacrylate	15625-89-5
Tripropylene glycol diacrylate	42978-66-5
Methyl 2-((allyloxy)methyl)acrylate (MAOMA)	219828-90-7
Tetrahydrofurfuryl methacrylate (THFMA)	2455-24-5
(2-ethyl-2-methyl-1,3-dioxolan-4-yl)methyl acrylate (EMDMA)	69701-99-1
3a,4,5,6,7,7a-hexahydro-4,7-methano-1Hindenyl acrylate (HHMIA)	33791-58-1
Dicyclopentylmethoxyethyl acrylate (DCPOEA)	65983-31-5
Propoxylated tetrahydrofurfuryl acrylate (PTHFA)	149303-87-7
Dipropylene glycol diacrylate (DPGDA)	57472-68-1
Cyclohexyl methacrylate (CHMA)	101-43-9
1,5-Pentanediyol diacrylate (PDDA)	36840-85-4
2,3-epoxypropyl methacrylate (Glycidyl methacrylate)	106-91-2
Dipentaerythritol hexaacrylate (DPEHA)	29570-58-9
Dipentaerythritol pentaacrylate (DPEPA)	60506-81-2

**Appendix-2.1 List of Other phthalates**

Substance Name	CAS No.
hexyl hydrogen phthalate	24539-57-9
1,2-Benzenedicarboxylic acid, 1-[(1S,2R,5S)-5-methyl-2-(1-methylethyl)cyclohexyl] ester	53623-42-0
1,2-Benzenedicarboxylic acid, 1-[1-(1,1-dimethylethyl)-3-methylbutyl] ester	109591-02-8
1,2-Benzenedicarboxylic acid, 1-[1-(1,1-dimethylethyl)pentyl] ester	109591-01-7
1,2-Benzenedicarboxylic acid, 1-(1-cyclohexyl-3-methylbutyl) ester	111501-63-4
1,2-Benzenedicarboxylic acid, 1-cyclohexyl ester	7517-36-4
Benzyl hydrogen phthalate	2528-16-7
1,2-Benzenedicarboxylic acid, 1-(1-phenylethyl) ester	33533-53-8
1,2-Benzenedicarboxylic acid, 1-(1-phenylethyl) ester	17470-31-4
1,2-Benzenedicarboxylic acid, 1-(1,2,2-trimethylpropyl) ester	84489-36-1
Diisononyl phthalate (DINP)	28553-12-0
Diisodecyl phthalate (DIDP)	68515-48-0
	26761-40-0
	68515-49-1
Di-n-Octyl phthalate (DNOP)	117-84-0
Di-n-hexyl phthalate (DnHP)	84-75-3
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5
	68648-93-1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	84777-06-0
Bis-(2-methoxyethyl) phthalate (DMEP)	117-82-8

**Appendix-2.1 List of Other phthalates**

Substance Name	CAS No.
Diethyl phthalate (DEP)	84-66-2
Di-iso-pentyl phthalate (DIPP)	605-50-5
Dimethyl phthalate (DMP)	131-11-3
Di-n-pentyl phthalate (DnPP)	131-18-0
n-Pentyl-isopentyl phthalate (nPIPP)	776297-69-9
Diundecyl phthalate (DuDP)	3648-20-2
Dicyclohexyl phthalate (DCHP)	84-61-7
Diisohexyl phthalate (DIHP)	71850-09-4
Bis(methylcyclohexyl) phthalate (MDCHP)	27987-25-3
Diphenyl phthalate (DPhP)	84-62-8
Bis(3,3,5-trimethyl cyclohexyl) phthalate (D3MCHP)	37832-65-8
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4
Dibenzyl phthalate (DBzP)	523-31-9
Diisooctyl phthalate2 (DiOP)	27554-26-3
Benzyl octyl phthalate	1248-43-7
Benzyl isooctyl phthalate	27215-22-1
n-butyl octyl phthalate	84-78-6
n-pentyl benzyl phthalate	1240-18-2
2-ethylhexyl octyl phthalate	3461-26-5
iso-butyl benzyl phthalate	72170-45-7
Butyl isoamyl phthalate	144648-76-0
iso-pentyl benzyl phthalate	72170-46-8
1,2-Benzenedicarboxylic acid, 1-isononyl 2- (phenylmethyl) ester	126198-74-1
1,2-Benzenedicarboxylic acid, mixed hexyl and oleyl and stearyl diesters	84961-72-8
(+)-Mono-(1,2,2-Trimethylpropyl) phthalate	75673-16-4
1,2-Benzenedicarboxylic acid, 1-[(1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl] ester	33744-74-0
Butyl hydrogen phthalate	131-70-4
(Dimethylcyclohexyl) hydrogen phthalate	1322-94-7
(2-ethylhexyl) hydrogen phthalate	4376-20-9

**Appendix-2.2 List of Boric acid, Specific sodium borates**

Substance Name	CAS No.
Boric acid	10043-35-3
	11113-50-1
Sodium tetraborate pentahydrate	12179-04-3
Disodium tetraborate, anhydrous	1330-43-4
Sodium tetraborate decahydrate	1303-96-4
Tetraboron disodium heptaoxide, hydrate	12267-73-1

**Appendix-2.3 Acrylates monomers Group2**

Substance Name	CAS No.
Dicyclopentanyl Methacrylate (DCPM)	34759-34-7
Cyclic trimethylol-propane formal acrylate (CTFA)	66492-51-1
2-hydroxyethyl acrylate (HEA)	818-61-1
2(2-Vinylloxyethoxy)ethyl acrylate (VOEEA)	86273-46-3
Dodecyl acrylate (DDA)	2156-97-0
Decamethyleneglycol diacrylate (DMGDA)	13048-34-5
1,12-Dodecanediol dimethacrylate (DDDMA)	72829-09-5
Isopropylidene glycerol acrylate (IPGA)	13188-82-4
Tricyclododecane dimethanol diacrylate (TCDDMDA)	42594-17-2
Benzyl acrylate (BZA)	2495-35-4
Methyl phenylglyoxalate; Methyl benzylformate (MBF)	15206-55-0
Polyethylene glycol methacrylate (PEGMA)	25852-47-5
Glycerol, propoxylated, esters with acrylic acid (GPTA)	52408-84-1
3,3,5-Trimethylcyclohexyl acrylate (TMCHA)	86178-38-3
N-vinylcaprolactam (NVC)	2235-00-9
Hexyl acrylate (HA)	2499-95-8
Tridecyl acrylate (TDA)	3076-04-8
4-Acryloylmorpholine (ACMO)	5117-12-4
Butyl acrylate (BA)	141-32-2
tert-Butyl acrylate (TBA)	1663-39-4

**Appendix-2.3 Acrylates monomers Group2**

Substance Name	CAS No.
Isobutyl acrylate (IBA)	106-63-8
Acrylic acid (AA)	79-10-7
Isodecyl acrylate (IDA)	1330-61-6
2-Ethylhexyl acrylate (EHA)	103-11-7
2-Hydroxyethyl methacrylate (HEMA)	868-77-9
2-Hydroxypropyl methacrylate (HPMA)	923-26-2 27813-02-1
2-Phenoxyethyl methacrylate (PEMA)	10595-06-9
Butyl methacrylate	97-88-1
N,N-Dimethylacrylamide (NNDMA)	2680-03-7
Ethyl acrylate (EA)	140-88-5
Ethyl methacrylate	97-63-2
Ethylene glycol dimethacrylate (EGDMA)	97-90-5
Isobutyl methacrylate (IBMA)	97-86-9
Isooctyl acrylate (IOA)	29590-42-9
Methyl acrylate (MA)	96-33-3
Methyl methacrylate	80-62-6
Urethane dimethacrylate (UDMA)	72869-86-4

**Appendix-2.4 Alkylphenol Etoxylates and Alkylphenols(APEO/AP)**

Substance Name	CAS No.
Nonylphenol	25154-52-3
Octylphenol	27193-28-8
Polyethylene glycol nonylphenyl ether	9016-45-9
Polyethylene glycol mono(4-nonylphenyl) ether	26027-38-3
Etoxylated isononylphenol	37205-87-1
Poly(oxy-1,2-ethanediyl), $\alpha$ -(4-nonylphenyl)- $\omega$ -hydroxy-, branched	127087-87-0
Poly(oxy-1,2-ethanediyl), $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy-, branched	68412-54-4
Polyethylene glycol mono(4-tert-octylphenyl) ether	9002-93-1

**Appendix-2.5 Bisphenols**

Substance Name	CAS No.
4,4'-Methylenebis(phenol) (Bisphenol F)	620-92-8
4,4'-oxybisphenol	1965-09-9
4,4'-bisphenol (BP4,4')	92-88-6
Bisphenol A	80-05-7
Bisphenol AF (BPAF)	1478-61-1
Bisphenol AP (BPAP)	1571-75-1
Bisphenol B (BPB)	77-40-7
Bisphenol BP (BPBP)	1844-01-5
Bisphenol C (BPC)	79-97-0
Bisphenol C2 (BPC2)	14868-03-2
Bisphenol E (BPE)	2081-08-5
Bisphenol F	1333-16-0
Bisphenol FL (BPFL)	3236-71-3
Bisphenol M (BPM)	13595-25-0
Bisphenol P (BPP)	2167-51-3
Bisphenol PH (BPPH)	24038-68-4
Bisphenol S	80-09-1
Bisphenol Z (BPZ)	843-55-0
Phenol, 2,2'-methylenebis-	2467-02-9

**Appendix-2.6 Chlorinated organic solvents**

Substance Name	CAS No.
Bromodichloromethane	75-27-4
Carbon tetrachloride	56-23-5
Chloroform	67-66-3
Dibromochloromethane	124-48-1
Methylene chloride	75-09-2
Methyl chloride	74-87-3
Chloroethane	75-00-3

**Appendix-2.6 Chlorinated organic solvents**

Substance Name	CAS No.
1,1-Dichloroethane	75-34-3
1,2-Dichloroethane	107-06-2
Hexachloroethane	67-72-1
Pentachloroethane	76-01-7
1,1,1,2-Tetrachloroethane	630-20-6
1,1,2,2-Tetrachloroethane	79-34-5
1,1,1-Trichloroethane	71-55-6
1,1,2-Trichloroethane	79-00-5
1,1-Dichloroethylene	75-35-4
cis-1,2-Dichloroethylene	156-59-2
trans-1,2-Dichloroethylene	156-60-5
Tetrachloroethylene	127-18-4
Trichloroethylene	79-01-6

**Appendix-2.7 Solvents**

Substance Name	CAS No.
Acrylonitrile	107-13-1
Carbon disulfide	75-15-0
Dimethylformamide	68-12-2
2-Ethoxyethyl acetate	111-15-9
2-Ethoxyethanol	110-80-5
N-Ethyl-2-pyrrolidone	2687-91-4
Ethylene glycol monomethyl ether acetate	110-49-6
2-Methoxyethanol	109-86-4
N-Methyl-2-pyrrolidone	872-50-4
Toluene	108-88-3
Trichloroethylene	79-01-6
o-Xylene	95-47-6
m-Xylene	108-38-3
p-Xylene	106-42-3

**Appendix-2.8 Organotin Compounds**

Substance Name	CAS No.
Monobutyltin (MBT) Compounds	-
Monooctyltin (MOT) Compounds	-
Dibutyltin Dichloride	683-18-1
Dibutyltin (DBT) Compounds	-
Diocetyl (DOT) Compounds	-
Tetrabutyltin (TeBT)	-
Tetraoctyltin (TeOT)	-
Tributyltin (TBT) Compounds	-
Tricyclohexyltin (TCyT) Compounds	-
Triphenyltin (TPhT) Compounds	-
Triphenyltin Hydroxide	76-87-9

**Appendix-2.9 Biocides**

Substance Name	CAS No.
2-bromo-2-(bromomethyl)pentanedinitrile (DBDCB)	35691-65-7
2-(Thiocyanatomethylthio) benzothiazole (TCMTB)	21564-17-0
Carbendazim	10605-21-7
Chlorocresol	59-50-7
Fludioxonil	131341-86-1
Glutaraldehyde	111-30-8
3-iodo-2-propynylbutylcarbamate (IPBC)	55406-53-6
N,N'-methylenebismorpholine (MBM)	5625-90-1
O-Phenylphenol	90-43-7
Propiconazole	60207-90-1
Tebuconazole	107534-96-3
Tolyfluanid	731-27-1
Bronopol	52-51-7



**Appendix-3.4 TSCA Priority chemicals (20 High-Priority Substances)**

Substance Name	CAS No.
Phthalic anhydride	85-44-9
1,1,2-Trichloroethane	79-00-5
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8

**Appendix-3.5 Isocyanates (monomers)**

Substance Name	CAS No.
Diphenylmethane-4,4-di-isocyanate (MDI)	101-68-8
Diphenylmethane-2,2-di-isocyanate (2,2-MDI)	2536-05-2
Diphenylmethane-2,4-di-isocyanate (2,4-MDI)	5873-54-1
MDI mixed isomers	26447-40-5
Technical grade MDI	9016-87-9
Hexamethylene diisocyanate (HMDI)	822-06-0
Isophorone diisocyanate (IPDI)	4098-71-9
Tetramethylxylene diisocyanate (TMXDI)	2778-42-9
Toluene-2,4-diisocyanate (2,4-TDI)	584-84-9
Toluene-2,6-diisocyanate (2,6-TDI)	91-08-7
2,4-/2,6-TDI mixture	26471-62-5
2,6-Diisopropylphenyl-isocyanate	28178-42-9
4,4-Methylenedicyclohexyl-di-isocyanate (4,4-MDI)	5124-30-1
Naphthalene-1,5-diisocyanato- (1,5-NDI)	3173-72-6
Phenylisocyanate	103-71-9

**Appendix-3.6 Glycidyl ether monomers**

Substance Name	CAS No.
Allyl glycidyl ether	106-92-3
1,4-Butanediol diglycidyl ether	2425-79-8
2,2'-[Oxybis(methylene)]bis[oxirane]	2238-07-5
Bisphenol A diglycidyl ether	1675-54-3
Glycidyl neodecanoate	26761-45-5
1,6-Hexanediol diglycidyl ether	16096-31-4
2-[[1-Methylethoxy)methyl]oxirane	4016-14-2
Butyl glycidyl ether	2426-08-6
Oxirane, 2-[[C8-10-alkyloxy)methyl] derivs.	68609-96-1
Phenyl glycidyl ether	122-60-1
p-tert-Butylphenyl glycidyl ether	3101-60-8
Glycerol triglycidyl ether	13236-02-7

**Appendix-3.7 Acrylates monomers Group3**

Substance Name	CAS No.
Isobornyl methacrylate (IBOMA)	7534-94-3
Isodecyl methacrylate (IDMA)	29964-84-9
Isopropylidene glyceryl methacrylate (IPGM)	7098-80-8
N,N-diethylacrylamide (DEAA)	2675-94-7
1,6-hexanediyl bismethacrylate (HDBMA)	6606-59-3
2-[2-(2-ethoxyethoxy)ethoxy]ethyl methacrylate (EEEEEM)	39670-09-2
2,3-dihydroxypropyl methacrylate (DHPMA)	5919-74-4
Magnesium acrylate	5698-98-6
Trimethylpropane trimethacrylate	3290-92-4
1,4-Di[4-(4-acryloyloxybutoxy)- benzoyloxy]-2-methylbenzene (DABM)	132900-75-5
3-[Dimethoxy(methyl)- silyl]propyl Methacrylate (DMSPMA)	14513-34-9
3-(Triethoxysilyl)propyl Methacrylate (TESPMA)	21142-29-0
3-(Trimethoxysilyl)propyl Methacrylate (TMSPMA)	2530-85-0
4-Benzoylphenyl Methacrylate (BPMA)	56467-43-7
Diacetone Acrylamide (DAAM)	2873-97-4
Lauryl methacrylate	142-90-5
Methacrylamide (MAA)	79-39-0
Methacrylic acid (MAA)	79-41-4
N,N-Dimethyl(methacryloyloxyethyl)ammonium propanesulfonate (DMAPS)	3637-26-1
N-Isopropylacrylamide (NIPAM)	2210-25-5

**Appendix-3.7 Acrylates monomers Group3**

Substance Name	CAS No.
N-Isopropylmethacrylamide (NIPMAA)	13749-61-6
N-tert-Octylacrylamide (OAA)	4223-03-4
Stearyl Methacrylate (SMA)	32360-05-7
Vinyl Neodecanoate	51000-52-3

NAMICS Green Procurement Standards Environmentally hazardous chemical substances list\_Revision Records

Revision No.	Established/ Revised on	Revision	Reason for revision	Established/ Revised by
13	2016/4/25	Revise the document name "NAMICS Green Procurement Standards Regulated and Managed Substances list" → "NAMICS Green Procurement Standards Environmentally Hazardous Chemical Substances List"	In order to follow Definition of Terms in "NAMICS Green Procurement Standards Document".	QA Div.
		To add new regulated level: "Reduced Substances"		
		Reallocate the Reference No.	To specify the requirements.	
		To add the Appendix 1~3		
		Revise the Regulated level and Scope. (No.P1020, P1030, P2001, M003)		
To Add the information of "Laws and regulations". (No.P1008)	To follow the legal amendment.			
14	2017/6/16	To add Managed substances (No. M017~M020).	To meet the customer requirements	QA Div.
		To revise the scope of Regulated substances (No.P1023, P2003).		
		To revise the threshold limit of Regulated substances (No. P1036).	To specify the requirements.	
		Revise the Regulated level and Scope. (No.P1036,R001,R014)		
		To add the Appendix 3.2		
15	2018/6/29	To add Managed substances (No. R015).	To meet the customer requirements	QA Div.
		To revise the threshold limit of Regulated substances (Reduced substances).		
16	2019/6/28	To add Level 2 substances (P2003)	To meet the customer requirements	QA Div.
		To add Managed substances (M003,M021,M022)		
		Revise the Laws and regulations		
		To revise the Analyzed target		
17	2020/6/30	To revise the Scope and Allowable concentration (P1002).	To be compatible with the industry standards.	QA Div.
18	2021/7/30	<ul style="list-style-type: none"> <li>•To revise Allowable concentration(P1002)</li> <li>•To correct errors(P1008, P1027)</li> <li>•To revise Regulated Substances(P1012)</li> <li>•To revise Regulated Substances and Allowable concentration(P1018)</li> <li>•To revise the Regulated Levels(P1023,P1037)</li> <li>•To add the Regulated Substances(P1038~P1050, P2001)</li> <li>•To add Reduced Substances(R016~R033)</li> <li>•To add Managed Substances(M022~M033)</li> </ul>	<p>Based on the review of Allowable concentrations in accordance with each substance's Scope.</p> <p>To meet the important customers' requirements.</p>	QA Div.

19	2022/6/30	<ul style="list-style-type: none"> <li>•To revise Target Substances (P1017,P1019,P1030,P2002,R012,M021)</li> <li>•To revise the Scope(P1013,M001)</li> <li>•To revise Allowable concentration (P1025,R019~R024,R027~R029)</li> <li>•To revise the Scope and Allowable concentration (P1024,R001).</li> <li>•To revise the Regulated Levels(P1044,P1048, P1050~P1053,P2002~P2004,R018,M028)</li> <li>•To add the Regulated Substances(P1049,P2005)</li> <li>•To add Reduced Substances(R017,R025,R026)</li> <li>•To add Managed Substances(M027,M029~M032)</li> </ul>	<p>Based on the review of Allowable concentrations in accordance with each substance's Scope.</p> <p>To meet the important customers' requirements.</p>	QA Div.
20	2023/8/1	<ul style="list-style-type: none"> <li>•To revise Target Substances (Appendix 1-11, 2-3)</li> <li>•To revise Allowable concentration (P1035, P1044)</li> <li>•To revise the Regulated Levels (P1054)</li> </ul>	To meet the important customers' requirements.	QA Div.
21	2024/9/1	<ul style="list-style-type: none"> <li>•To revise Allowable concentration (P1029))</li> <li>•To add Target Substances (P1055~P1057, R030, M033~M036)</li> <li>•To revise Target Substances (Appendix 1-7,1-11, 2-3)</li> </ul>	To meet the important customers' requirements.	QA Div.
22	2025/8/1	<ul style="list-style-type: none"> <li>• To revise Allowable concentration (P1009~P1011,P1017,P1037,P1047))</li> <li>• To add Target Substances (P1030, P2005, R031, M037~M048)</li> <li>• To revise Target Substances (M026, Appendix 1-7,1-11, 2-3)</li> </ul>	To meet the important customers' requirements.	QA Div.
23	2026/6/1	<ul style="list-style-type: none"> <li>• To revise Allowable concentration (P1002,P1006,P1007,P1013~1015,P1019~P1023, P1028,P1031,P1032,P1036,P1039,P1041,P1043, P1053,P1074,P1075,R002,)</li> <li>• To add Target Substances (P1049,P1058~P1064,P1076,P2005~P2008,R023, M043~M050,M053)</li> <li>• To revise Regulated Levels (P1065~P1075,P2002,R018~R022,M051,M052)</li> <li>• To revise the Scope(P2009)</li> <li>• To revise the target Substance(M037)</li> <li>• To revise the Terminology</li> <li>• Reallocation of Reference numbers</li> <li>• To revise the Laws and regulations</li> </ul>	<p>To meet the important customers' requirements.</p> <p>A major revision of the list was carried out in conjunction with the review of regulatory level definitions.</p>	QA Div.