

GENERAL Group

Specified Chemical Substances List

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GENERAL Inc.

Introduction

Since the enforcement of the European RoHS Directive, regulations on chemical substances contained in products have been established in various countries and regions, and their scope and requirements have become increasingly diversified in recent years.

This document compiles the relevant legal and social requirements of the countries and regions where our Group markets its products, and organizes regulated chemical substances into the “GENERAL Group Specified Chemical Substances List.”

We kindly request our suppliers to review the chemical substances used in their deliverables against the contents of this list, in order to ensure compliance with the requirements for specified chemical substances, which constitute a significant part of the GENERAL Group Green Procurement Standards, and to cooperate with the GENERAL Group green procurement activities.

Our basic policy regarding deliverables is that the effective date of the ban to deliver is six months before the effective date of the relevant regulation.

However, depending on the timing of promulgation the legal regulation, the period until their enforcement, and the extent of their impact on our products, the effective date of the ban to deliver may be moved up. Furthermore, to comply with regulations requiring the prohibition or reporting of content, we may request an additional investigation in addition to the information you have already submitted. In particular, the addition of substances of very high concern (SVHC) to the REACH Regulation requires only a six-month period from official publication to enforcement, so prompt responses are required. Therefore, we request that you respond within two months of the start of the investigation. To allow ample time to respond, please cooperate by gathering information on your company's materials from the stage of considering candidate substances for restriction.

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Definitions

Specified chemical Substances	Chemical substances for which our group requires compliance by suppliers, based on laws and regulations or customer requirements.
Prohibited substances	Substances which are prohibited to use, contain, or contain exceeding the prohibited content conditions in the deliverables corresponding to the applicable products. Substances which shall be reported, even if prohibited content conditions are satisfied.
Reportable substances	Substances for which reporting of content, material composition, usage, and other relevant information is required when contained in the deliverables.
Prohibited content conditions	Conditions that prohibit the content of the chemical substances listed in the prohibited substances list. If a threshold is specified, the specified concentration limit must be met.
Contained	A chemical substance exists in the deliverables. This includes not only intentional additions and fillings, but also chemicals resulting from unintentional adhesion, contamination, migration, generation, or residues occurring during the period until delivery.
Content rate	When no specific denominator is indicated in the prohibited content conditions, the concentrations of chemical substances shall be calculated using the article as the denominator. When prohibited content conditions specify in homogeneous materials, the concentrations of chemical substances shall be calculated using that part as the denominator. The units in this list are expressed as weight ratios, such as wt%, ppm (mg/kg), or ppb ($\mu\text{g}/\text{kg}$).
Intentional addition	The intentional use of a regulated substance when its continuous presence is desired to achieve specific properties, appearance, or quality.
Exemption	A case in which the use of a regulated substance exceeding the prohibited content conditions is permitted for specific uses or periods as defined by legal regulations.
Homogeneous material	<p>One material of uniform composition throughout or a material, consisting of a combination of materials, that cannot be disjointed or separated into different materials by mechanical actions such as unscrewing, cutting, crushing, grinding and abrasive processes.</p> <p>[Examples of disassembly into homogeneous materials]</p> <ul style="list-style-type: none"> -The "metal" base material of sheet metal and the surface "plating layer," "chromate film," or "coating film" -Molded "plastic" and the surface "ink" or "coating film" used for printing -The "metal" used for wiring in printed circuit boards or LSIs and the "resin" or "glass" used for insulation

Effective date of the ban to deliver	The date on which suppliers are prohibited from delivering to the GENERAL Group any deliverables that do not meet the prohibited content conditions. The reference date shall, in principle, be set at least six months prior to the effective date of the relevant regulation and shall be determined in accordance with applicable legal requirements.
Packaging and packing materials	Packaging materials that are contained in our group's final products. This excludes packaging and packing materials supplied to us by our supplier that are not introduced into the market.
Textile products	Products made primarily from fibers that may come into contact with the skin under normal conditions of use.

Notes

*For chemical substances or applicable products that fall under multiple classifications, the stricter content conditions shall apply.

*As legal regulations related to specified chemical substances may be revised from time to time, the latest version of the relevant regulations must be referred to.

*Even for substances, applications, or products not listed in this document, compliance with applicable regional laws and regulations prohibiting their contents is mandatory.

* For certain applicable products, comply with the AFIRM RESTRICTED SUBSTANCES LIST (RSL).

1A. Prohibited Substances

No.	Substance	Representative CAS No.	Applicable products	Prohibited content conditions	Primary referenced laws and regulations
1	Asbestos	-	Whole	Prohibition of intentional addition	REACH Annex17 TSCA ORRChem
2	Cadmium/Cadmium compounds	7440-43-9	Whole	0.01 wt% (100 ppm) or less of cadmium in homogeneous materials Except for the exemptions listed in the European Commission Exemptions List* ¹⁾	RoHS
			Packaging and packing materials	100 ppm or less as the sum of Nos. 2, 3, 4, and 5 in homogeneous materials	PPWR
3	Chromium(VI) compounds	18540-29-9	Whole	0.1 wt% (1000 ppm) or less of chromium(VI) in homogeneous materials Except for the exemptions listed in the European Commission Exemptions List* ¹⁾	RoHS
			Packaging and packing materials	100 ppm or less as the sum of Nos. 2, 3, 4, and 5 in homogeneous materials	PPWR
4	Lead/Lead compounds	7439-92-1	Whole	0.1 wt% (1000 ppm) or less of lead in homogeneous materials Except for the exemptions listed in the European Commission Exemptions List* ¹⁾	RoHS
			Polymers or copolymers of vinyl chloride (PVC)	Less than 0.1 wt%(1000 ppm) of lead in the PVC material	REACH Annex17
			Cords, including wires and cables coated by thermosetting resin	Less than 300 ppm of lead in surface coating materials.	Prop 65
			Packaging and packing materials	100 ppm or less as the sum of Nos. 2, 3, 4, and 5 in homogeneous materials	PPWR

No.	Substance	Representative CAS No.	Applicable products	Prohibited content conditions	Primary referenced laws and regulations
5	Mercury/Mercury compounds	7439-97-6	Whole	Prohibition of intentional addition 0.1 wt% (1000 ppm) or less of mercury in homogeneous materials Except for the exemptions listed in the European Commission Exemptions List ^{*1)}	Canada Mercury Regulations RoHS
			Packaging and packing materials	100 ppm or less as the sum of Nos. 2, 3, 4, and 5 in homogeneous materials	PPWR
6	Polybrominated biphenyls (PBBs)	-	Whole	0.1 wt% (1000 ppm) or less in homogeneous materials	RoHS
	Hexabromobiphenyl	36355-01-8	Whole	Prohibition of intentional addition 0.1 wt% (1000 ppm) or less in homogeneous materials	EU POPs RoHS
7	Polybrominated diphenyl ethers (PBDEs)	-	Whole	0.1 wt% (1000 ppm) or less in homogeneous materials	RoHS
			All except electrical and electronic equipment subject to RoHS	Prohibition of intentional addition 10 ppm or less as the sum of Tetra, Penta, Hexa, Hepta and Deca-BDE	EU POPs ICHEMS
	Decabromodiphenyl ether (DecaBDE)	1163-19-5	Whole	Prohibition of intentionally use 0.1 wt% (1000 ppm) or less in homogeneous materials	TSCA RoHS
8	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	Whole	0.1 wt% (1000 ppm) or less in homogeneous materials	RoHS
			All except electrical and electronic equipment subject to RoHS	Less than 0.1 wt% (1000 ppm) as the sum of Nos. 8, 9, 10, and 11 in plasticised material	REACH Annex17
9	Butyl benzyl phthalate (BBP)	85-68-7	Whole	0.1 wt% (1000 ppm) or less in homogeneous materials	RoHS
			All except electrical and electronic equipment subject to RoHS	Less than 0.1 wt% (1000 ppm) as the sum of No. 8, 9, 10, and 11 in plasticised materials	REACH Annex17

No.	Substance	Representative CAS No.	Applicable products	Prohibited content conditions	Primary referenced laws and regulations
10	Dibutyl phthalate (DBP)	84-74-2	Whole	0.1 wt% (1000 ppm) or less in homogeneous materials	RoHS
			All except electrical and electronic equipment subject to RoHS	Less than 0.1 wt% (1000 ppm) as the sum of Nos. 8, 9, 10, and 11 in plasticised materials	REACH Annex17
11	Diisobutyl phthalate (DIBP)	84-69-5	Whole	0.1 wt% (1000 ppm) or less in homogeneous materials	RoHS
			All except electrical and electronic equipment subject to RoHS	Less than 0.1 wt% (1000 ppm) as the sum of Nos. 8, 9, 10, and 11 in plasticised materials	REACH Annex17
12	Perchlorate	7791-03-9	Whole	Less than 6 ppb as perchlorate	California state law (U.S.)(AB826)
13	Ozone-depleting substances (ODS) * ²⁾	-	Whole	Prohibition of intentional addition Prohibited for use in the manufacturing processes	Montreal Protocol
14	Perfluorooctane sulfonic acid (PFOS) and its salts	1763-23-1	Whole	Prohibition of intentional addition 0.025 ppm (25 ppb) or less as the sum of PFOS and its salts	EU POPs IChEMS
15	PFOS-related compounds	-	Whole	Prohibition of intentional addition 1 ppm or less as PFOS-related compounds or a combination of its compounds	EU POPs IChEMS
16	Polychlorinated biphenyls (PCBs) and specific substitutes	1336-36-3	Whole	Prohibition of intentional addition 0.2 ppm or less in total	EU POPs IChEMS
17	Polychlorinated terphenyls (PCTs)	-	Whole	Prohibition of intentional addition 2 ppm or less in total	IChEMS REACH Annex17
18	Shortchain chlorinated paraffins (C10-13) (SCCPs)	85535-84-8	Whole	Prohibition of intentional addition 1000 ppm or less	EU POPs CSCL
19	Tri-substituted organostannic compounds (except for TBTO)	-	Whole	1000 ppm or less by weight of tin in the part	REACH Annex17

No.	Substance	Representative CAS No.	Applicable products	Prohibited content conditions	Primary referenced laws and regulations
20	Tributyl Tin Oxide (TBTO)	56-35-9	Printing inks	Prohibition of intentional addition	CSCCL
			Whole	1000 ppm or less by weight of tin in the part	REACH Annex17
21	Dibutyltin (DBT) compounds	-	Whole	1000 ppm or less by weight of tin in the part	REACH Annex17
22	Diocetyl tin (DOT) compounds	-	Textile products and their parts and components, and room-temperature curing molding kits	1000 ppm or less by weight of tin in the part	REACH Annex17
23	Dimethylfumarate (DMF)	624-49-7	Whole	0.1 ppm or less of the part	REACH Annex17
24	Fluorinated greenhouse gases (HFC, PFC, SF ₆)	-	All except refrigerants	Prohibition of intentional addition Prohibited for use in the manufacturing processes	F-gas
25	Polychlorinated naphthalenes (PCNs)	70776-03-3	Whole	Prohibition of intentional addition	EU POPs
26	Hexachlorobenzene (HCB)	118-74-1	Whole	Prohibition of intentional addition 10 ppm or less	EU POPs
27	Aldrin	309-00-2	Whole	Prohibition of intentional addition	EU POPs
28	Dieldrin	60-57-1	Whole	Prohibition of intentional addition	EU POPs
29	Endrin	72-20-8	Whole	Prohibition of intentional addition	EU POPs
30	1,1,1-trichloro-2,2-bis (4-chlorophenyl) ethane (DDT)	50-29-3	Whole	Prohibition of intentional addition	EU POPs
31	Chlordanes	57-74-9	Whole	Prohibition of intentional addition	EU POPs
32	N,N'-ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine, or N,N'-dixylyl-p-phenylenediamine	27417-40-9 28726-30-9 70290-05-0	Styrene-butadiene rubber	Prohibition of intentional addition	CSCCL
33	Toxaphene	8001-35-2	Whole	Prohibition of intentional addition	EU POPs
34	Mirex	2385-85-5	Whole	Prohibition of intentional addition	EU POPs
35	Dicofol	115-32-2	Whole	Prohibition of intentional addition	EU POPs

No.	Substance	Representative CAS No.	Applicable products	Prohibited content conditions	Primary referenced laws and regulations
36	Hexachlorobutadiene (HCBD)	87-68-3	Whole	Prohibition of intentional addition	TSCA
37	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	Whole	Prohibition of intentional addition	CSCL
38	Pentachlorobenzene	608-93-5	Whole	Prohibition of intentional addition	EU POPs
39	Hexachlorocyclohexanes, including lindane (HCH)	58-89-9	Whole	Prohibition of intentional addition	EU POPs
40	Chlordecone	143-50-0	Whole	Prohibition of intentional addition	EU POPs
41	Nickel/Nickel compounds	7440-02-0	Parts, components and materials of products that may come into prolonged contact with the skin	Prohibition of intentional addition 0.5 µg/cm ² /week or less as nickel release	REACH Annex17
42	Polycyclic-aromatic hydrocarbons (PAH) Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[b]fluoranthene (BbFA) Benzo[j]fluoranthene (BjFA) Benzo[k]fluoranthene (BkFA) Dibenzo[a,h]anthracene (DBAhA)	- 50-32-8 192-97-2 56-55-3 218-01-9 205-99-2 205-82-3 207-08-9 53-70-3	Rubber or plastic components that come into prolonged or repeated contact with the skin	1 ppm or less in rubber or plastic components	REACH Annex17
43	Perfluorooctanoic acid (PFOA) and its salts	335-67-1	Whole	Prohibition of intentional addition 0.025 ppm (25 ppb) or less of the sum of PFOA and its salts	EU POPs
44	PFOA-related compounds	-	Whole	Prohibition of intentional addition 1 ppm or less of PFOA-related compounds or a combination of PFOA-related compounds	EU POPs

No.	Substance	Representative CAS No.	Applicable products	Prohibited content conditions	Primary referenced laws and regulations
45	Hexabromocyclododecane (HBCD) 1,2,5,6,9,10-hexabromocyclododecane α -hexabromocyclododecane β -hexabromocyclododecane γ -hexabromocyclododecane	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	Whole	Prohibition of intentional addition 75 ppm or less	EU POPs
46	Endosulfan	115-29-7	Whole	Prohibition of intentional addition	EU POPs
47	Pentachlorophenol (PCP) and its salts and esters	87-86-5	Whole	Prohibition of intentional addition 5 ppm or less	EU POPs
48	4,4'-isopropylidene diphenol (Bisphenol A) (BPA)	80-05-7	Thermal paper	Less than 0.02 wt% (200 ppm)	REACH Annex17
49	4,4'-sulphonyldiphenol (Bisphenol S) (BPS)	80-09-1	Thermal paper	Less than 0.02 wt% (200 ppm)	ORRChem
50	Phenol, isopropylated phosphate (3:1) (PIP3:1)	68937-41-7	Whole	Prohibition of intentional addition Less than 0.1 wt% (1000 ppm) Except for the exemptions listed in 40 CFR 751.407* ³⁾	TSCA
51	Pentachlorothiophenol (PCTP)	133-49-3	Whole	1 wt% (10000 ppm) or less	TSCA
52	Long-chain perfluorocarboxylic acids (LC-PFCAs), and their salts	375-95-1	Whole	In the case of C9-14, less than 25 ppb as the sum of C9-C14 PFCA and their salts	REACH Annex17
				In the case of C9-21, Prohibition of intentional addition	POPs

No.	Substance	Representative CAS No.	Applicable products	Prohibited content conditions	Primary referenced laws and regulations
53	LC-PFCAs related compounds	-	Whole	In the case of C9-14, less than 260 ppb as the sum of C9-C14 PFCA related compounds	REACH Annex17
				In the case of C9-21, Prohibition of intentional addition	POPs
54	Perfluorohexane sulfonic acid (PFHxS) and its salts	355-46-4	Whole	Prohibition of intentional addition 25 ppb or less as the sum of PFHxS and its salts	EU POPs
55	PFHxS related substances	-	Whole	Prohibition of intentional addition 1000 ppb or less as PFHxS-related compounds or a combination of PFHxS-related compounds	EU POPs
56	Mineral oil aromatic hydrocarbons (MOAH) comprising 1 to 7 aromatic rings	-	Inks for packaging materials and printed materials	Mineral oil aromatic hydrocarbons (MOAH) comprising 1 to 2 aromatic rings : 0.1 wt% (1000 ppm) or less in ink Mineral oil aromatic hydrocarbons (MOAH) comprising 3 to 7 aromatic rings : 1 ppm or less in ink	AGEC
57	Mineral oil saturated hydrocarbons (MOSH) with 16 to 35 carbon atoms	-	Inks for packaging materials and printed materials	0.1 wt% (1000 ppm) or less in ink	AGEC

No.	Substance	Representative CAS No.	Applicable products	Prohibited content conditions	Primary referenced laws and regulations
58	Halogenated Flame Retardants	-	Enclosure and stand of electronic displays with a screen area greater than 100 cm ²	0.1 wt% (1000 ppm) or less as halogens in homogeneous materials	ErP
			Electric and electronic products with plastic external enclosures, intended for indoor use that are powered by standard 120-volt outlets or battery	Prohibition of intentional addition In homogeneous materials: (a) 1000 ppm or less as bromine (b) 1000 ppm or less as chlorine (c) less than 5000 ppm as phosphorus, and 1000 ppm or less as fluorine	Washington state law (U.S.)
59	Methoxychlor	72-43-5	Whole	Prohibition of intentional addition 0.01 ppm or less	EU POPs
60	Dechlorane plus includes its syn-isomer and anti-isomer	13560-89-9	Whole	Prohibition of intentional addition 1 ppm or less	EU POPs CSCL
61	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	Whole	Prohibition of intentional addition 1 ppm or less	EU POPs CSCL
			Triacetyl cellulose film in polarisers	Effective August 4, 2029, the above prohibited content conditions will apply	
62	Chlorpyrifos	2921-88-2	Whole	Prohibition of intentional addition	POPs
63	Chlorinated paraffins with carbon chain lengths in the range C14–17 and chlorination levels at or exceeding 45 per cent chlorine by weight (MCCPs)	85535-85-9	Whole	Prohibition of intentional addition	POPs

No.	Substance	Representative CAS No.	Applicable products	Prohibited content conditions	Primary referenced laws and regulations
64	Arsenic compounds	-	Wood preservative	Prohibition of intentional addition	REACH Annex17
65	Inorganic ammonium salts	-	Cellulose insulation material	Prohibition of intentional addition	REACH Annex17
66	Heptachlor	76-44-8	Whole	Prohibition of intentional addition	EU POPs
67	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13674-87-8	Whole	0.1 wt% (1000 ppm) or less	District of Columbia Law (U.S.)
68	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Whole	0.1 wt% (1000 ppm) or less	District of Columbia law (U.S.)
69	Heptachlor epoxide	1024-57-3	Whole	Prohibition of intentional addition	ORRChem
70	Radioactive substances	-	Whole	Prohibition of intentional addition	BSS
71	Non-approved or non-supported active substances in BPR* ^{4),5)}	-	Whole	Prohibition of intentional addition	BPR
72	Formaldehyde and formaldehyde-releasing substances	50-00-0	Whole	0.080 mg/m ³ or less as the concentration of formaldehyde released	REACH Annex17
			Textile products	75 ppm or less	
73	Per- and polyfluoroalkyl substances (PFAS)	-	Packaging and packing materials	Prohibition of intentional addition Less than 100 ppm as total organic fluorine	California state law (U.S.) (SB343)
			Textile products	Prohibition of intentional addition Less than 50 ppm as total organic fluorine	California state law (U.S.) (AB1817)

Remarks (1A)

- *1) For RoHS exemptions, refer to the latest version of the Exemptions List published on the European Commission (EC) website.
https://environment.ec.europa.eu/topics/waste-and-recycling/rohs-directive/implementation-rohs-directive_en
- *2) Ozone-depleting substances refer to CFCs, Halons, HCFCs, HBFCs, and other substances listed in Annexes A, B, D, and E of the Montreal Protocol.
<https://ozone.unep.org/treaties/montreal-protocol/montreal-protocol-substances-deplete-ozone-layer>
- *3) For exemptions of PIP (3:1), refer to the specific uses listed in the CFR.
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-R/part-751/subpart-E/section-751.407>
- *4) For non-approved or non-supported active substances under the Biocidal Products Regulation (BPR), check the status of each substance on the European Chemicals Agency (ECHA) website.
<https://echa.europa.eu/information-on-chemicals/biocidal-active-substances>
- *5) Any additives used in parts supplied to us must contain active substances with biocidal activity that have been permitted in advance by us.

1B. Prohibited Substances (Textile Products)

No.	Substance	Representative CAS No.	Applicable products	Prohibited content conditions	Primary referenced laws and regulations
1	Azocolourants and Azodyes which from certain aromatic amines	-	Parts, components and materials of textile products	Prohibition of intentional addition 30 mg/kg or less as generated aromatic amines	REACH Annex17
2	Formaldehyde	50-00-0	Textile products	75 ppm or less	REACH Annex17
3	Tris (2,3-dibromopropyl) phosphate (TRIS)	126-72-7	Textile products	Prohibition of intentional addition	REACH Annex17
4	Tris(aziridinyl)phosphine oxide (TEPA)	545-55-1	Textile products	Prohibition of intentional addition	REACH Annex17
5	Undecafluorohexanoic acid (PFHxA), and its salts	307-24-4	Textile products	Less than 25 ppb as the sum of PFHxA and its salts	REACH Annex17
6	PFHxA related substances	-	Textile products	Less than 1000 ppb as the sum of PFHxA related substances	REACH Annex17
7	Certain substances classified as carcinogenic, mutagenic, or toxic for reproduction (CMRs)	-	Textile products	Prohibition of intentional addition To comply with the prohibited substance conditions listed in REACH Annex 17* ²⁾	REACH Annex17
8	Isodrin	465-73-6	Textile products	Prohibition of intentional addition	ORRChem
9	Kelevan	4234-79-1	Textile products	Prohibition of intentional addition	ORRChem
10	Strobane	8001-50-1	Textile products	Prohibition of intentional addition	ORRChem
11	Telodrin	297-78-9	Textile products	Prohibition of intentional addition	ORRChem
12	Dichlorodiphenyldichloroethylene	72-55-9	Textile products	Prohibition of intentional addition	ORRChem
13	Dichlorodiphenyldichloroethane	72-54-8	Textile products	Prohibition of intentional addition	ORRChem
14	Perthane	72-56-0	Textile products	Prohibition of intentional addition	ORRChem
15	Quintozene	82-68-8	Textile products	Prohibition of intentional addition	ORRChem
16	Pentachlorophenoxy compounds	-	Textile products	Prohibition of intentional addition	ORRChem

No.	Substance	Representative CAS No.	Applicable products	Prohibited content conditions	Primary referenced laws and regulations
17	Tetrachlorophenols (TeCP) and their salts, and tetrachlorophenoxy compounds	58-90-2	Textile products	Prohibition of intentional addition	ORRChem
18	Halogenated biphenyls with the formula $C_{12}H_nX_{10-n}$; X = halogen, $0 \leq n \leq 9$	-	Textile products	Prohibition of intentional addition	ORRChem
19	Halogenated terphenyls with the formula $C_{18}H_nX_{14-n}$; X = halogen, $0 \leq n \leq 13$	-	Textile products	Prohibition of intentional addition	ORRChem
20	Halogenated naphthalenes with the formula $C_{10}H_nX_{8-n}$; X = halogen, $0 \leq n \leq 7$	-	Textile products	Prohibition of intentional addition	ORRChem
21	Per- and polyfluoroalkyl substances (PFAS)	-	Textile products	Prohibition of intentional addition Less than 50 ppm as total organic fluorine	California state law (U.S.) (AB1817)

Remarks (1B)

- *1) For the relevant CMR substances, refer to the European Chemicals Agency (ECHA) website.
<https://echa.europa.eu/information-on-chemicals>
- *2) For the prohibited content conditions, check the conditions of Entries 28-30 and the referenced regulatory requirements on the European Chemicals Agency (ECHA) website.
<https://echa.europa.eu/substances-restricted-under-reach>

1C. Prohibited Substances (Batteries)

Substance	Target regions	Referenced laws and regulations	Applicable batteries	Prohibited content conditions (As metal elements)	
Mercury / Mercury compounds	EU	Battery Regulation (EU) 2023/1542	All batteries	0.0005 wt% (5ppm) or less	
	India	Battery Waste Management Rules	All batteries except button zinc silver oxide batteries and button zinc air batteries	Prohibition of intentional addition	
	Canada	Products Containing Mercury Regulations (SOR/2014-254)	All batteries	0.0005 wt% (5ppm) or less	
	U.S.	Mercury-Containing and Rechargeable Battery Management Act (Public Law 104-142) and related state laws	All batteries	Prohibition of intentional addition	
	China		Content limitation of Mercury, Cadmium and Lead for Zinc Anode Primary Battery (GB 24427-2021)	Non-alkaline zinc-manganese dioxide batteries	1 µg/g (1 ppm) or less
				Alkaline zinc-manganese dioxide batteries	1 µg/g (1 ppm) or less
Taiwan		Regulations on the Manufacture, Import and Sale of Dry Cell Batteries (No.1040016236)	Non-button cell type batteries (Manganese-zinc batteries/Alkaline manganese batteries)	1 ppm or less	

Substance	Target regions	Referenced laws and regulations	Applicable batteries	Prohibited content conditions (As metal elements)
Cadmium / Cadmium compounds	EU	Battery Regulation (EU) 2023/1542	Portable batteries	0.002 wt% (20 ppm) or less
	India	Battery Waste Management Rules	Portable batteries	20 ppm or less
	China	Content limitation of Mercury, Cadmium and Lead for Zinc Anode Primary Battery (GB 24427-2021)	Non-alkaline zinc-manganese dioxide batteries	100 µg/g (100ppm) or less
			Alkaline zinc-manganese dioxide batteries	10 µg/g (10 ppm) or less
	Taiwan	Regulations on the Manufacture, Import and Sale of Dry Cell Batteries (No.1040016236)	Non-button cell type batteries (Manganese-zinc batteries/Alkaline manganese batteries)	20 ppm or less
	Saudi Arabia	Technical Regulation for Electrical Batteries (No.02-04-18-166)	All batteries	20 ppm or less
Lead / Lead compounds	EU	Battery Regulation (EU) 2023/1542	Portable batteries	0.01 wt% (100 ppm) or less
			Portable zinc-air button cells	100 ppm or less
	China	Content limitation of Mercury, Cadmium and Lead for Zinc Anode Primary Battery (GB 24427-2021)	Non-alkaline zinc-manganese dioxide batteries	1000 µg/g (1000 ppm) or less
			Alkaline zinc-manganese dioxide batteries	40 µg/g (40 ppm) or less

2A. Reportable Substances (As Substances)

No.	Substance	Representative CAS No.	Primary referenced laws and regulations
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	REACH SVHC
2	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	REACH SVHC
3	Anthracene	120-12-7	REACH SVHC
4	Cobalt dichloride	7646-79-9	REACH SVHC
5	Diarsenic pentaoxide	1303-28-2	REACH SVHC
6	Diarsenic trioxide	1327-53-3	REACH SVHC
7	Triethyl arsenate	15606-95-8	REACH SVHC
8	2,4-dinitrotoluene	121-14-2	REACH SVHC
9	Anthracene oil	90640-80-5	REACH SVHC
10	Anthracene oil, anthracene paste	90640-81-6	REACH SVHC
11	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	REACH SVHC
12	Anthracene oil, anthracene paste, distn. lights	91995-17-4	REACH SVHC
13	Anthracene oil, anthracene-low	90640-82-7	REACH SVHC
14	Pitch, coal tar, high-temp.	65996-93-2	REACH SVHC
15	Acrylamide	79-06-1	REACH SVHC
16	Boric acid	-	REACH SVHC
17	Disodium tetraborate, anhydrous	1330-43-4	REACH SVHC
18	Tetraboron disodium heptaoxide, hydrate	12267-73-1	REACH SVHC
19	Trichloroethylene	79-01-6	REACH SVHC
20	2-ethoxyethanol	110-80-5	REACH SVHC
21	2-methoxyethanol	109-86-4	REACH SVHC
22	Cobalt(II) carbonate	513-79-1	REACH SVHC
23	Cobalt(II) diacetate	71-48-7	REACH SVHC
24	Cobalt(II) dinitrate	10141-05-6	REACH SVHC
25	Cobalt(II) sulphate	10124-43-3	REACH SVHC
26	1,2,3-trichloropropane	96-18-4	REACH SVHC
27	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	REACH SVHC
28	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNU)	68515-42-4	REACH SVHC
29	1-Methyl-2-pyrrolidone (NMP)	872-50-4	REACH SVHC
30	2-ethoxyethyl acetate	111-15-9	REACH SVHC
31	Hydrazine	302-01-2, 7803-57-8	REACH SVHC
32	Strontium chromate	7789-06-2	REACH SVHC
33	1,2-dichloroethane	107-06-2	REACH SVHC
34	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	REACH SVHC
35	2-Methoxyaniline, o-Anisidine	90-04-0	REACH SVHC
36	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	REACH SVHC
37	Aluminosilicate Refractory Ceramic Fibres	-	REACH SVHC
38	Arsenic acid	7778-39-4	REACH SVHC
39	Bis(2-methoxyethyl) ether	111-96-6	REACH SVHC
40	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	REACH SVHC
41	Calcium arsenate	7778-44-1	REACH SVHC
42	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	REACH SVHC

No.	Substance	Representative CAS No.	Primary referenced laws and regulations
43	N,N-dimethylacetamide (DMAC)	127-19-5	REACH SVHC
44	Phenolphthalein	77-09-8	REACH SVHC
45	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	REACH SVHC
46	1, 2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	REACH SVHC
47	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	REACH SVHC
48	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	REACH SVHC
49	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC)	59653-74-6	REACH SVHC
50	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	REACH SVHC
51	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	REACH SVHC
52	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	REACH SVHC
53	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	REACH SVHC
54	Diboron trioxide	1303-86-2	REACH SVHC
55	Formamide	75-12-7	REACH SVHC
56	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	REACH SVHC
57	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	REACH SVHC
58	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	REACH SVHC
59	1,2-diethoxyethane	629-14-1	REACH SVHC
60	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	REACH SVHC
61	4,4'-methylenedi-o-toluidine	838-88-0	REACH SVHC
62	4,4'-oxydianiline and its salts	-	REACH SVHC
63	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	REACH SVHC
64	4-aminoazobenzene	60-09-3	REACH SVHC
65	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	REACH SVHC
66	4-Nonylphenol, branched and linear	-	REACH SVHC
67	6-methoxy-m-toluidine (p-cresidine)	120-71-8	REACH SVHC
68	Biphenyl-4-ylamine	92-67-1	REACH SVHC
69	Cyclohexane-1,2-dicarboxylic anhydride (all possible combinations of the cis- and trans-isomers)	-	REACH SVHC
70	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	REACH SVHC
71	Dibutyltin dichloride (DBTC)	683-18-1	REACH SVHC
72	Diethyl sulphate	64-67-5	REACH SVHC
73	Diisopentyl phthalate (DIPP)	605-50-5	REACH SVHC
74	Dimethyl sulphate	77-78-1	REACH SVHC
75	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	REACH SVHC
76	Furan	110-00-9	REACH SVHC
77	Henicosaflluoroundecanoic acid	2058-94-8	REACH SVHC
78	Heptacosaflluorotetradecanoic acid	376-06-7	REACH SVHC
79	Hexahydromethylphthalic anhydride	-	REACH SVHC
80	Methoxyacetic acid	625-45-6	REACH SVHC
81	Methyloxirane (Propylene oxide)	75-56-9	REACH SVHC
82	N,N-dimethylformamide	68-12-2	REACH SVHC
83	N-methylacetamide	79-16-3	REACH SVHC

No.	Substance	Representative CAS No.	Primary referenced laws and regulations
84	n-pentyl-isopentyl phthalate	776297-69-9	REACH SVHC
85	o-aminoazotoluene	97-56-3	REACH SVHC
86	o-toluidine	95-53-4	REACH SVHC
87	Pentacosafluorotridecanoic acid	72629-94-8	REACH SVHC
88	[Intentionally left blank]		
89	4-Nonylphenol, branched and linear, ethoxylated	-	REACH SVHC
90	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	REACH SVHC
91	Dipentyl phthalate (DPP)	131-18-0	REACH SVHC
92	Dihexyl phthalate	84-75-3	REACH SVHC
93	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	REACH SVHC
94	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	REACH SVHC
95	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	REACH SVHC
96	Trixylyl phosphate	25155-23-1	REACH SVHC
97	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	REACH SVHC
98	Sodium perborate; perboric acid, sodium salt	-	REACH SVHC
99	Sodium peroxometaborate	7632-04-4	REACH SVHC
100	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	REACH SVHC
101	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)	-	REACH SVHC
102	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3 % of dihexyl phthalate (EC No. 201-559-5)	-	REACH SVHC
103	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] (covering any of the individual stereoisomers of [1] and [2] or any combination thereof)	-	REACH SVHC
104	1,3-propanesultone	1120-71-4	REACH SVHC
105	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	REACH SVHC
106	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	REACH SVHC
107	Nitrobenzene	98-95-3	REACH SVHC
108	Perfluorononan-1-oic-acid (PFNA) and its sodium and ammonium salts	-	REACH SVHC
109	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	REACH SVHC
110	4,4'-isopropylidenediphenol (Bisphenol A) (BPA)	80-05-7	REACH SVHC
111	4-heptylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	REACH SVHC
112	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	REACH SVHC

No.	Substance	Representative CAS No.	Primary referenced laws and regulations
113	p-(1,1-dimethylpropyl)phenol	80-46-6	REACH SVHC
114	Benz[a]anthracene	56-55-3	REACH SVHC
115	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) with ≥ 0.1 % w/w 4-heptylphenol, branched and linear (4-HPbl)	-	REACH SVHC
116	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7	REACH SVHC
117	Benzo[ghi]perylene	191-24-2	REACH SVHC
118	Decamethylcyclotetrasiloxane	541-02-6	REACH SVHC
119	Dicyclohexyl phthalate	84-61-7	REACH SVHC
120	Disodium octaborate	12008-41-2	REACH SVHC
121	Dodecamethylcyclohexasiloxane	540-97-6	REACH SVHC
122	Ethylenediamine	107-15-3	REACH SVHC
123	Octamethylcyclotetrasiloxane	556-67-2	REACH SVHC
124	Terphenyl, hydrogenated	61788-32-7	REACH SVHC
125	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	REACH SVHC
126	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	REACH SVHC
127	Benzo[k]fluoranthene	207-08-9	REACH SVHC
128	Fluoranthene	206-44-0	REACH SVHC
129	Phenanthrene	85-01-8	REACH SVHC
130	Pyrene	129-00-0	REACH SVHC
131	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	REACH SVHC
132	2-methoxyethyl acetate	110-49-6	REACH SVHC
133	4-tert-butylphenol	98-54-4	REACH SVHC
134	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	REACH SVHC
135	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	REACH SVHC
136	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	REACH SVHC
137	Diisohexyl phthalate	71850-09-4	REACH SVHC
138	Perfluorobutane sulfonic acid (PFBS) and its salts	-	REACH SVHC
139	1-vinylimidazole	1072-63-5	REACH SVHC
140	2-methylimidazole	693-98-1	REACH SVHC
141	Butyl 4-hydroxybenzoate	94-26-8	REACH SVHC
142	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	REACH SVHC
143	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	REACH SVHC
144	Diocyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	REACH SVHC
145	1,4-dioxane	123-91-1	REACH SVHC
146	2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	REACH SVHC
147	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	REACH SVHC
148	4,4'-(1-methylpropylidene)bisphenol	77-40-7	REACH SVHC
149	Glutaral	111-30-8	REACH SVHC

No.	Substance	Representative CAS No.	Primary referenced laws and regulations
150	[Intentionally left blank]		
151	Orthoboric acid, sodium salt	13840-56-7	REACH SVHC
152	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	REACH SVHC
153	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	REACH SVHC
154	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	REACH SVHC
155	S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	REACH SVHC
156	tris(2-methoxyethoxy)vinylsilane	1067-53-4	REACH SVHC
157	N-(hydroxymethyl)acrylamide	924-42-5	REACH SVHC
158	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	REACH SVHC
159	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(TBBPA)	79-94-7	REACH SVHC
160	4,4'-sulphonyldiphenol(Bisphenol S)	80-09-1	REACH SVHC
161	Barium diboron tetraoxide	13701-59-2	REACH SVHC
162	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	REACH SVHC
163	Isobutyl 4-hydroxybenzoate	4247-02-3	REACH SVHC
164	Melamine	108-78-1	REACH SVHC
165	Perfluoroheptanoic acid (PFHxA) and its salts	-	REACH SVHC
166	Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	REACH SVHC
167	Bis(4-chlorophenyl) sulphone	80-07-9	REACH SVHC
168	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	REACH SVHC
169	2,4,6-tri-tert-butylphenol	732-26-3	REACH SVHC
170	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	REACH SVHC
171	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	REACH SVHC
172	Bumetrizole (UV-326)	3896-11-5	REACH SVHC
173	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	REACH SVHC
174	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	REACH SVHC
175	Triphenyl phosphate	115-86-6	REACH SVHC
176	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	REACH SVHC
177	O,O,O-triphenyl phosphorothioate	597-82-0	REACH SVHC
178	Octamethyltrisiloxane	107-51-7	REACH SVHC
179	Perfluamine	338-83-0	REACH SVHC
180	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	REACH SVHC
181	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	REACH SVHC
182	Decamethyltetrasiloxane	141-62-8	REACH SVHC

No.	Substance	Representative CAS No.	Primary referenced laws and regulations
183	Tetra(sodium/potassium) 7-[(E)-(2-acetamido-4-[(E)-(4-[[4-chloro-6-((2-[[4-fluoro-6-[[4-(vinylsulfonyl)phenyl]amino)-1,3,5-triazine-2-yl]amino]propyl)amino)-1,3,5-triazine-2-yl]amino)-5-sulfonato-1-naphthyl]diazanyl]-5-methoxyphenyl)diazanyl]-1,3,6-naphthalenetrisulfonate (Reactive Brown 51)	-	REACH SVHC
184	Diisooctyl phthalate (DIOP)	27554-26-3	AGEC
185	Gold	7440-57-5	AGEC
186	Silver	7440-22-4	AGEC
187	Resorcinol	108-46-3	AGEC
188	Nanomaterials	-	AGEC
189	Antimony	7440-36-0	CRM
190	Arsenic	7440-38-2	CRM
191	Barite (Ba(SO ₄))	13462-86-7	CRM
192	Bauxite	1318-16-7	CRM
193	Beryllium	7440-41-7	CRM
194	Bismuth	7440-69-9	CRM
195	Boron	7440-42-8	CRM
196	Cobalt metal powder	7440-48-4	CRM
197	Coke (coal)	65996-77-2	CRM
198	Copper	7440-50-8	CRM
199	Feldspar-group minerals	68476-25-5	CRM
200	Fluorite (CaF ₂)	14542-23-5	CRM
201	Gallium	7440-55-3	CRM
202	Germanium	7440-56-4	CRM
203	Graphite	7782-42-5	CRM
204	Hafnium	7440-58-6	CRM
205	Helium	7440-59-7	CRM
206	Lithium	7439-93-2	CRM
207	Magnesium	7439-95-4	CRM
208	Manganese	7439-96-5	CRM
209	Nickel (Metallic)	7440-02-0	CRM
210	Niobium	7440-03-1	CRM
211	Phosphate rock and Phosphorite, calcined	65996-94-3	CRM
212	Red phosphorous	7723-14-0	CRM
213	Silicon	7440-21-3	CRM
214	Strontium	7440-24-6	CRM
215	Tantalum	7440-25-7	CRM
216	Titanium	7440-32-6	CRM
217	Tungsten	7440-33-7	CRM
218	Vanadium	7440-62-2	CRM
219	Iridium	7439-88-5	Customer requirements
220	Palladium	7440-05-3	Customer requirements
221	Platinum	7440-06-4	Customer requirements
222	Rhodium	7440-16-6	Customer requirements
223	Ruthenium	7440-18-8	Customer requirements
224	Cerium	7440-45-1	Customer requirements

No.	Substance	Representative CAS No.	Primary referenced laws and regulations
225	Dysprosium	7429-91-6	Customer requirements
226	Erbium	7440-52-0	Customer requirements
227	Europium	7440-53-1	Customer requirements
228	Gadolinium	7440-54-2	Customer requirements
229	Holmium	7440-60-0	Customer requirements
230	Lanthanum	7439-91-0	Customer requirements
231	Lutetium	7439-94-3	Customer requirements
232	Neodymium	7440-00-8	Customer requirements
233	Praseodymium	7440-10-0	Customer requirements
234	Samarium	7440-19-9	Customer requirements
235	Scandium	7440-20-2	Customer requirements
236	Terbium	7440-27-9	Customer requirements
237	Thulium	7440-30-4	Customer requirements
238	Ytterbium	7440-64-4	Customer requirements
239	Yttrium	7440-65-5	Customer requirements
240	Borate (BO ₃)	14213-97-9	Customer requirements
241	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE)	84852-53-9	REACH SVHC
242	n-hexane	110-54-3	REACH SVHC
243	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (Bisphenol AF) and its salts	-	REACH SVHC

2B. Reportable Substances (As Legal Requirements)

Applicable laws and regulations	Regulatory overview	Applicable substance
U.S. state laws (e.g., Minnesota)	A federal law that mandates reporting on the use of PFAS to understand actual usage and establish a foundation for future risk assessment and regulation	Per- and Polyfluoroalkyl Substances (PFAS)
Proposition 65 (Prop 65)	A law in the State of California (U.S.) that aims to prevent exposure to chemicals causing cancer or reproductive toxicity	Substances listed in the OEHHA Proposition 65 list https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/tsca-section-8a7-reporting-and-recordkeeping
Biocidal Products Regulation (BPR)	A regulation in the EEA and Switzerland that requires authorization for the placing on the market and use of biocidal products	Approved active substances and active substances under evaluation https://echa.europa.eu/information-on-chemicals/biocidal-active-substances

Referenced Laws and Regulations

Short name	Country/ regions	Regulation overview (English)	Regulation overview (Japanese)
Montreal Protocol	International treaty	Montreal Protocol on Substances that Deplete the Ozone Layer and national laws	モントリオール議定書とそれに基づく各国国内法
POPs	International treaty	Stockholm Convention on Persistent Organic Pollutants (POPs)	ストックホルム条約
RoHS	EU	Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment, as amended by Directive (EU) 2015/863	電気電子機器における特定有害物質の使用制限に関する指令（2011/65/EU および (EU) 2015/863）
REACH Annex17	EU	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Annex XVII Restriction substance list	REACH Annex17 制限物質リスト
REACH SVHC	EU	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Article 59 Substances of very high concern (SVHC) in candidate list	REACH 59 条 高懸念物質 (SVHC)
EU POPs	EU	Regulation (EU) 2019/1021 on persistent organic pollutants	残留性有機汚染物質 (POPs) 規則
PPWR	EU	Regulation (EU) 2025/40 on Packaging and Packaging Waste	包装材規則
BPR	EU	Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products	バイオサイド (殺生物性) 製品規則
F-gas	EU	Regulation (EU) No 517/2014 on fluorinated greenhouse gases	F ガス規則
ErP	EU	Directive 2009/125/EC establishing a framework for the setting of ecodesign requirements for energy-related products	エコデザイン指令
BSS	EU	Directive 2013/59/Euratom laying down basic safety standards for protection against the dangers arising from exposure to ionising radiation	放射性保護指令 (基本安全基準)
CRM	EU	Regulation (EU) 2024/1252 establishing a framework for ensuring a secure and sustainable supply of critical raw materials	重要原材料規則
TSCA	U.S.	Toxic Substance Control Act	有害物質規制法
Prop 65	State of California (U.S.)	Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)	1986 年安全飲料水および有害物質施行法 (プロポジション 65)
California state law (U.S.) (AB826)	State of California (U.S.)	Perchlorate Contamination Prevention Act of 2003 (AB826)	過塩素酸塩汚染防止法

Short name	Country/ regions	Regulation overview (English)	Regulation overview (Japanese)
California state law (U.S.)(SB343)	State of California (U.S.)	Truth in Recycling Law of 2021 (SB343)	リサイクル表示の適正化法
California state law (U.S.) (AB1817)	State of California (U.S.)	Safer Clothes and Textiles Act of 2022 (AB1817)	安全な衣類・繊維製品法
Washington state law (U.S.)	State of Washington (U.S.)	Safer Products for Washington Chapter 173-337 WAC Safer Products Restrictions and Reporting	安全な消費者製品規則 (SPW)
District of Columbia law (U.S.)	District of Columbia (U.S.)	Carcinogenic Flame Retardant Prohibition Amendment Act of 2016 (D.C. Law 21-108)	発がん性難燃剤禁止改正法
CSCL	Japan	Act on the Regulation of Manufacture and Evaluation of Chemical Substances (Chemical Substances Control Law)	化学物質の審査及び製造等の規制に関する法律(化審法)
ICHEMS	Australia	Industrial Chemicals Environmental Management Standard	工業用化学物質環境管理基準
ORRChem	Switzerland	Chemical Risk Reduction Ordinance	化学物質リスク低減例
Canada Mercury Regulations	Canada	Products Containing Mercury Regulations	水銀含有製品規制
AGEC	France	Law no. 2020-105 of 10 February 2020 on the fight against waste and circular economy	循環型経済のための廃棄物対策法

Revision History

September 5, 2025	Edition 1	First Edition Created
January 1, 2026	Edition 1.1	Changed: Trade name Updated: Prohibited content conditions Added: Reportable Substance
June 8, 2026	Edition 1.2	Added: Notes, Prohibited Substances, Reportable Substances

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