List of F	Prohibit	ted Hazardoı	us Substa	nces	
Version 7.2					Latest amendment: 2021-06-23
Non-exhaustive summary of legal bans or restrictions of hazardous substances in home appliances and products marketed under BSH brands					
Substance/ substance group	CAS No.	Affected application	Limit value (wt.%) or (mg/kg) <sup>1)</sup>	Exemp- tions	Legal regulations <sup>2)</sup>
General bans or restrictions of hazar	dous substa	nces in home appliand	ces marketed un	der BSH bra	ands
Asbestos	1332-21-4 see below <sup>3)</sup>	All applications	n.g.	no	REACH Annex XVII
Decabromodiphenyl ether (commercial mixture, c-decaBDE)	1163-19-5	All applications, e.g. flame retardant	n.g.	no	Stockholm Convention; TSCA
Polychlorinated biphenyls (PCBs)	1336-36-3	All applications	0.005 % (total)	no	Stockholm Convention
Pentachlorophenol (PCP) Pentachloro-phenol, sodium salt Other PCP salts and compounds	87-86-5 131-52-2	All applications	0.0005 % (total)	no	Stockholm Convention
Pentachlorothiophenol (PCTP)	133-49-3	All applications	1 %	no	TSCA
Hexachlorobutadiene (HCBD)	87-68-3	All applications	0	no	TSCA
Hexabromocyclodedecane (HBCDD)	25637-99-4, 3194-55-6	All applications, e.g. flame retardant	0.01 %	no	Stockholm Convention
Perfluorooctane sulfonic acid and its metal salts, halides, amides, and other derivatives including polymers (PFOS) and Perfluorooctane sulfonyl fluoride	1763-23-1 307-35-7	All applications	0.001 %	yes	Stockholm Convention
Short chain chlorinated paraffins, $C_{10}$ - $C_{13}$ , (SCCP)	85535-84-8	All applications, e.g. softener, flame retardant	n.g.	no	Stockholm Convention
Chlorofluorocarbons (CFC), Hydrochlorofluorocarbons (HCFC)	see below <sup>4)</sup>	All applications, e.g. refrigerant, blowing agent	n.g.	no	Montreal protocol, F-Gases
Perfluorinated carbons (FC)	n.a.	All applications	n.g.	no	Montreal protocol, F-Gases; REACH
Hydrofluorocarbons (HFC)	n.a.	All applications in cooling appliances	n.g.	no	Montreal protocol, F-Gases
Dimethyl fumarate (DMF)	624-49-7	All applications	0.1 mg/kg	no	REACH Annex XVII, Biocidal Products
Tetrabromobisphenol A, additive (TBBPA)	79-94-7	All applications, e.g. flame retardant	0.1 %	no	REACH
Radioactive substances	n.a.	Metals	n.g.	no	REACH
Phenol, Isopropylated Phosphate 3:1 (PIP 3:1)	68937-41-7	All applications	0	yes	TSCA

Substance/	CAS No.	Affected	Limit value	Exemp-	Legal regulations <sup>2)</sup>
substance group		application	(wt.%) or (mg/kg) <sup>1)</sup>	tions	
RoHS Restrictions of hazardous sub	stances in ho	ome appliances, with ex	emptions		
Lead Lead compounds	7439-92-1	All applications, e.g. solders, alloy in copper, aluminium and steel	0.1 %	yes	RoHS
Cadmium Cadmium compounds	7440-43-9	All applications, e.g. metal surface coating, pigments and stabilizers in plastics	0.01 %	yes	RoHS
Mercury Mercury compounds	7439-97-6	All applications, e.g. lamps	0.1 %	yes	RoHS
Hexavalent chromium (Cr <sup>VI</sup> )	n.a.	All applications, e.g. metal surface coating	0.1 %	yes	RoHS
Polybrominated biphenyls (PBBs)	n.a.	All applications, e.g. flame retardant	0.1 %	no	RoHS
Polybromodiphenyl ethers (PBDE)	n.a.	All applications, e.g. flame retardant	0.1 %	no	RoHS
Di-(2-ethylhexyl)phthalate (DEHP)	117-81-7	All applications, e.g. softener	0.1 %	no	RoHS
Di-n-butyl phthalate (DBP)	84-74-2	All applications, e.g. softener	0.1 %	no	RoHS
Di-isobutyl phthalate (DIBP)	84-69-5	All applications, e.g. softener	0.1 %	no	RoHS
Benzyl butyl phthalate (BBP)	85-68-7	All applications, e.g. softener	0.1 %	no	RoHS
Restrictions of hazardous substance	es in batteries	and accumulators			
Cadmium	7440-43-9	Portable batteries and accumulators	0.002 %	yes	Batteries
Mercury	7439-97-6	Batteries and accumulators	0.0005 %	yes	Batteries
		Button cells	2%		Batteries
Restrictions of hazardous substance	es in Insulatir	ng materials			
Ceramic fibres (aluminiosilicate)		Insulation materials	0.1 %	yes	REACH SVHC
Man-made vitreous (silicate) fibres with random orientation with oxide of sodium, potassium, calcium, magnesium and barium content >18 % by mass		Insulation materials	0.1 % (total)	yes	ChemVerbotsV
Restrictions of polycyclic-aromatic h contact	ydrocarbons	(PAHs) in materials wit	h intended or	reasonably f	oreseeable skin
Polycyclic aromatic hydrocarbons (PAHs)	see below <sup>5)</sup>	All applications , e.g. black carbon, rubber		yes	REACH Annex XVII, Entry No.50
Biocides, treated articles					
All substances with biocidal effects	n.a.	All applications of treated articles	0.1 mg/kg	yes	Biocidal Products

Substance/ substance group	CAS No.	Affected application	Limit value (wt.%) or (mg/kg) <sup>1)</sup>	Exemp- tions	Legal regulations <sup>2)</sup>
Packaging					
Heavy metals (lead, cadmium, hexavalent chromium, mercury)	n.a.	Packaging and packaging components	0.01 % (total)	no	REACH Annex XVII
PVC	n.a.	Packaging and packaging components	n.g.	no	
Restrictions of hazardous substance	es in New-pro	oduct-development, sub	stances prohib	oited within	EU products
Bisphenol A	80-05-7	All applications with food contact	n.g.	yes	REACH SVHC, REACH Annex XVII
Phthalates, C <sub>4</sub> -C <sub>8</sub> ester	n.a.	All applications, e.g. softener	0.1 %	yes	REACH SVHC
N,N-dimethylacetamide (DMAC)	127-19-5	All applications	0.1 %	yes	REACH SVHC
4-Nonylphenol, branched and linear	n.a.	All applications	0.1 %	yes	REACH SVHC
Diazene-1,2-dicarboxamide (ADCA)	123-77-3	All applications	0.1 %	yes	REACH SVHC
Imidazolidine-2-thione (ETU)	96-45-7	All applications	0.1 %	yes	REACH SVHC
1-Methyl-2-pyrrolidone	872-50-4	All applications	0.1 %	yes	REACH SVHC
Boric acid	10043-35-3, 11113-50-1	All applications	0.1 %	yes	REACH SVHC
Disodium tetraborate anhydrous	1303-96-4, 1330-43-4, 12179-04-3	All applications	0.1 %	yes	REACH SVHC
Sn-organic compounds, e.g. Dibutyltir dichloride	n.a.	All applications	0.1 %	yes	REACH SVHC

Substance/	CAS No.	Affected	Limit value	Exemp-	Legal regulations 2)
substance group		application	(wt.%) or	tions	
			(mg/kg) 1)		

## Notes

1) "n.g." means that no limit value applies; the respective analytical detection limit has to be considered

2) Legal regulations

Batteries Directive 2006/66/EC of the European Parliament and of the Council on batteries and

accumulators and waste batteries and accumulators; including all amendments

Biocidal Products Regulation 528/2012/EU of the European Parliament and of the Council concerning the

making available on the market and use of biocidal products; including all amendments

ChemVerbotsV German chemicals prohibition ordinance (Chemikalienverbotsverordnung)

F-Gases Regulation 517/2014/EU of the European Parliament and the Council on fluorinated

greenhouse gases; including all amendments

Montreal protocol Montreal Protocol on Substances that Deplete the Ozone Layer

POP Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June

REACH Regulation 1907/2006 of the European Parliament and of the Council concerning the

Registration, Evaluation, Authorisation and Restriction of Chemicals

REACH SVHC Candidate list of substances of very high concern

RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of

the use of certain hazardous substances in electrical and electronic equipment; including

all amendments

Stockholm Convention Stockholm Convention on Persistent organic pollutants (POPs), revised in 2019

TSCA US Toxic Substances Control Act, Section 6, Part 751

3) Asbestos	CAS No.	5) PAHs	CAS No.
Aktinolite	77536-66-4	Benzo[a]pyrene (BaP)	50-32-9
Amosite	12172-73-5	Dibenzo[a,h]anthracene (DBAhA)	53-70-3
Anthophyllite	77536-67-5	Benzo[a]anthracene (BaA)	56-55-3
Chrysotile	12001-29-5	Chrysen (CHR)	218-01-9
Crocidolite	12001-28-4	Benzo[j]fluoranthene (BjFA)	205-82-3
Tremolite	77536-68-6	Benzo[b]fluoranthene (BbFA)	205-99-2
		Benzo[k]fluoranthene (BkFA)	207-08-9
		Benzo[e]pyrene (BeP)	192-97-2

4) CFCs, H-CFCs	CAS No.
Trichlorofluoromethane (R11)	75-69-4
Dichlorodifluoromethane (R12)	75-71-8
Chlorodifluoromethane (R22)	75-45-6
1,1-Dichlor-1-fluorethan (R141b)	1717-00-6