

Supplementary Table 1: HBM4EU priority substances evaluated under REACH.

Substance group	Substance	CAS #	Evaluation under REACH RA scheme	Use of HBM data
Phthalates	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	SVHC requiring authorisation	No
			Application for Authorisation on Formulation of recycled soft PVC containing DEHP in compounds and dry-blends (ECHA, 2014b)	Yes
			Restriction in toys & childcare articles (ECHA, 2017a)	Yes
	Benzyl Butyl phthalate (BBP)	85-68-7	SVHC requiring authorisation	No
			Restriction in toys & childcare articles (ECHA, 2017a)	Yes
	Di butyl phthalate (DBP)	84-74-2	SVHC requiring authorisation	No
			Application for Authorisation for DBP used as an absorption solvent in a closed system in the manufacture of maleic anhydride (ECHA, 2014a)	Yes
			Restriction (toys & childcare articles) (ECHA, 2017a)	Yes
			SVHC requiring authorisation	No
	Diisobutyl phthalate (DIBP)	84-69-5	Restriction in toys & childcare articles (ECHA, 2017a)	Yes
SVHC requiring authorisation			No	
Diisononyl phthalate (DINP)	28553-12-0	Restriction (toys & childcare articles)	No	

	Dipentyl phthalate (DPP)	131-18-0	SVHC included on the candidate list for authorisation	No
	Diisopentyl phthalate (DIPP)	605-50-5	SVHC included on the candidate list for authorisation	No
	Bis(2-methoxyethyl) phthalate	117-82-8	SVHC included on the candidate list for authorisation	No
	Diisobutyl phthalate	84-69-5	SVHC included on the candidate list for authorisation	No
	Dihexyl phthalate	84-75-3	SVHC included on the candidate list for authorisation	No
Bisphenol	Bisphenol A	80-05-7	Restriction in thermal paper (ECHA, 2015c)	Yes
	4,4'-isopropylidenediphenol (BPA)			
Per/Poly fluorinated compounds	Perfluorooctanoic acid (PFOA)	335-67-1	SVHC on the candidate list for authorisation (ECHA, 2013)	No
Cadmium &	Cadmium	7440-43-9	Restrictions	No
Chromium	Chromium trioxide	1333-82-0	SVHC requiring authorisation	No
	Chromium VI compounds	-	SVHC requiring authorisation	No/(yes*)
PAHs	Benzo[a]pyrene (BaP)	50-32-8	Restriction	No
Anilines	4,4'-methylenebis[2- chloroaniline] (MOCA)	101-14-4	SVHC requiring authorisation (ECHA, 2015a)	Yes

			SVHC requiring authorisation (ECHA, 2015b, 2017b)	Yes
Flame retardants	Tris(2,3-dibromopropyl) phosphate	126-72-7	Restriction	No
	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	Restriction	No

(*) Some chromium(VI) authorization applications used occupational biomonitoring data in exposure assessment and in some cases biomonitoring of workers has been proposed by ECHA's Risk Assessment Committee (RAC) as an additional condition for authorization

References:

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- ECHA (2014a). Committee for Risk Assessment (RAC); Committee for Socio-economic Analysis (SEAC). Opinion on an Application for Authorisation for Dibutyl phthalate (DBP) used as an absorption solvent in a closed system in the manufacture of maleic anhydride. Helsinki Available at: <https://echa.europa.eu/documents/10162/3b943b86-18d1-40a3-986c-aadecb691d0> [Accessed June 24, 2018].
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- ECHA (2017b). Committee for Risk Assessment (RAC) Committee for Socio-economic Analysis (SEAC) Opinion on an Application for Authorisation for Formulation of an epoxy resin hardener containing technical MDA. Helsinki Available at: <http://echa.europa.eu/addressing-chemicals-of-concern/authorisation/applications-for-> [Accessed August 2, 2018].