



General Information HCT-202401-06

# The latest REACH SVHC list

## As of January 23, 2024

In accordance with REACH regulations, if the SVHC content of an article is greater than 0.1% (w/w), the article supplier shall provide sufficient information to the recipient of the article or the consumer for the safe use of the article; If the SVHC content of the article is greater than 0.1% (w/w) and the annual export volume of the substance is greater than 1 ton, the article supplier shall submit a notification to ECHA. According to the Waste Framework Directive WFD, from 5 January 2021, if the SVHC content in an article is greater than 0.1% (w/w), the article supplier should submit a SCIP notification.

Batch	No.	Substance name	EC No.	CAS No.	SVHC property	Potential uses
The 30th batch	240	2,4,6-tri-tert-buty lphenol	211-989- 5	732-26-3	Toxic for reproduction (Article 57c); PBT (Article 57d); vPvB (Article 57e)	Used as an intermediate/reactant in chemical production; in formulations and mixtures for fuel processing in refineries and fuel facilities.
	239	2-(2H-benzotriaz ol-2-yl)-4-(1,1,3,3 -tetramethylbutyl )phenol	221-573- 5	3147-75- 9	vPvB (Article 57e)	UV absorber, which is widely used in various plastics, coatings, adhesives, and sealants.
	238	2-(dimethylamino )-2-[(4-methylphe nyl)methyl]-1-[4-( morpholin-4-yl)p henyl]butan-1-on e	438-340- 0	119344-8 6-4	Toxic for reproduction (Article 57c)	Photoinitiators, which is used in ink and toner, printing and recording media reproduction.
	237	Bumetrizole (UV326)	223-445- 4	3896-11- 5	vPvB (Article 57e)	UV absorber, which is widely used in various plastics, coatings, adhesives, and sealants.

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	236	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	700-960- 7	-	vPvB (Article 57e)	Used in adhesives and sealants, paints, fillers, putty, stucco, model clays, inks, toners and polymers.
The	235	Diphenyl(2,4,6-tri methylbenzoyl)p hosphine oxide	278-355- 8	75980-60 -8	Toxic for reproduction (Article 57c)	Inks and toners, coating products, photo-chemicals, polymers, adhesives and sealants and fillers, putties, plasters, modelling clay.
batch	234	Bis(4-chlorophen yl) sulphone	201-247-	80-07-9	vPvB (Article 57 e)	Manufacture of chemicals, plastic products and rubber products.
	233	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	253-692- 3	37853-59 -1	vPvB (Article 57e)	As an additive flame retardant for plastics, textiles, construction adhesives, etc.; also as a heat stabilizer for electronic appliances.
	232	2,2',6,6'-tetrabro mo-4,4'-isopropyl idenediphenol	201-236-	79-94-7	Carcinogenic (Article 57a)	Flame retardant, commonly used in epoxy-coated circuit boards, paper and textiles.
The 28th batch	231	4,4'-sulphonyldip henol	201-250- 5	80-09-1	Toxic for reproduction (Article 57c); Endocrine disrupting properties (Article 57(f) - environment); Endocrine disrupting properties (Article 57(f) - human health)	For the production of PESU and other plastics, thermal paper, leather tanning agent.

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230	Barium diboron tetraoxide	237-222-	13701-59 -2	Toxic for reproduction (Article 57c)	For paints and varnishes.
229	Bis(2-ethylhexyl) tetrabromophthal ate covering any of the individual isomers and/or combinations thereof	-	-	vPvB (Article 57e)	Used in the manufacture of rubber and plastics; as a flame retardant and plasticizer in PVC materials, wire and cable insulation, films and sheets, carpet backing, coated fabrics, wall coverings and adhesives.
228	Isobutyl 4-hydroxybenzoa te	224-208- 8	4247-02-	Endocrine disrupting properties (Article 57(f) - human health)	Used in paint products, fillers, putties, plasters, modeling clays, inks and toners.
227	' Melamine	203-615-	108-78-1	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health level of concern having probable serious effects to the environment (Article 57(f) - environment)	Starting material for various polymerization reactions, such as the production of formaldehyde-based resins and other melamine derivatives.
226	Perfluoroheptano ic acid and its salts	-	-	Toxic for reproduction (Article 57c); PBT (Article 57d); vPvB (Article 57e); Equivalent level of	It is used as a dispersant and surfactant in the suspension polymerization of tetrafluoroethylene.

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					concern having probable serious effects to human health (Article 57(f) - human health); Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)	
	225	reaction mass of 2,2,3,3,5,5,6,6-oct afluoro-4-(1,1,1,2 ,3,3,3-heptafluor opropan-2-yl)mo rpholine and 2,2,3,3,5,5,6,6-oct afluoro-4-(heptaf luoropropyl)morp holine	473-390- 7	-	vPvB (Article 57e)	Transfer of substance or mixture (charging and discharging) at dedicated facilities.  Use as laboratory reagent.  Use as functional fluid at industrial site.
The 27th batch	224	N-(hydroxymethyl )acrylamide	213-103- 2	924-42-5	Carcinogenic (Article 57a) Mutagenic (Article 57b)	Used as cross-linking agent, widely used in fiber modification resin, processing dye, plastic adhesive, soil stabilizer, etc.; Used as an organic synthesis monomer to prepare a variety of co-polymers.
The 26th batch	223	(±)-1,7,7-trimethy l-3-[(4-methylphe nyl)methylene]bic yclo[2.2.1]heptan	-	-	Endocrine disrupting properties (Article 57(f) - human	As a raw material for the synthesis of other compounds, it is also used in cosmetics, body care products, facial

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	-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)			health)	creams, etc.
222	6,6'-di-tert-butyl- 2,2'-methylenedi- p-cresol (DBMC)	204-327-	119-47-1	Toxic for reproduction (Article 57 c)	Used as antioxidant for natural rubber, synthetic rubber, latex, other synthetic materials and petroleum products.
221	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) phosphorodithioa te	401-850- 9	255881-9 4-8	PBT (Article 57 d)	Used as a lubricant and lubricating oil.
220	tris(2-methoxyeth oxy)vinylsilane	213-934-	1067-53-	Toxic for reproduction (Article 57 c)	Used in the manufacture of plastics, rubbers, silica gels and sealants, etc.

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	219	1,4-dioxane	204-661- 8	123-91-1	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to the environment (Article 57f -environment) Equivalent level of concern having probable serious effects to human health (Article 57f -	It can be used as a solvent for synthetic chemicals.
The 25th batch	218	2,2-bis(bromome thyl)propane1,3-diol (BMP) 2,2-dimethylprop an-1-ol, tribromo derivative/3-bro mo-2,2-bis(brom omethyl)-1-propa nol (TBNPA) 2,3-dibromo-1-pr opanol (2,3-DBPA)	221-967- 7 253-057- 0 202-480- 9	3296-90- 0 36483-57 -5 1522-92- 5 96-13-9	Carcinogenic (Article 57 a)	It can be used in the production of polymer resins, plastic products and chemicals.  BMP: manufacture of polymer resins and in one component foam (OCPF) application.  TBNPA: polymer production manufacture of plastics products, including compounding and conversion and as an intermediate.  DBPA: registered as an intermediate.
	217	2-(4-tert-butylbe nzyl)propionalde hyde and its individual stereoisomers	_	_	Toxic for reproduction (Article 57 c)	It can be used in cleaning agents, cosmetics, in scented articles, polishes and wax blends.

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216	4,4'-(1-methylpro pylidene)bisphen ol; (bisphenol B)(BPB)	201-025-	77-40-7	Endocrine disrupting properties (Article 57f - human health and environment)	It can be used in manufacture of phenolic and polycarbonate resin, and used as a buffer for coatings in the food industry.
215	Glutaral	203-856- 5	111-30-8	Respiratory sensitising properties (Article 57f - human health)	It can be used in Biocides, leather tanning, x-ray film processing, cosmetics.
214	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	_	_	PBT (Article 57d) vPvB (Article 57e)	It can be used as flame retardants, plasticising additives in plastics, sealants, rubber and textiles.
213	Orthoboric acid, sodium salt	237-560-	13840-56 -7	Toxic for reproduction (Article 57 c)	It can be used as solvent and corrosion inhibitor.
212	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any	_	_	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57f - human health and environment)	It can be used as an intermediate in the production of special resins, paints, lacquers and coating resins, and as monomers for phenol /formaldehyde resins and ink resins.

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		individual isomers and/ or combinations thereof (PDDP)				
	211	Bis(2-(2-methoxy ethoxy)ethyl)ethe r	205-594- 7	143-24-8	Toxic for reproduction (Article 57 (c))	It can be used as a solvent for alkaline gold hydride. It can be used to purify synthetic gas, natural gas, acetylene and other gases.  Also used in the production of inks, toners, plastics and rubber tires.
The 24th batch	210	Dioctyltin 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	_	_	Toxic for reproduction (Article 57 (c))	It can be used as stabilizer and catalyst for plastics, textiles and leather.
The 23st batch	209	1-vinylimidazole	214-012- 0	1072-63- 5	Toxic for reproduction (Article 57c)	Hardener for resin materials, photochemical reagents, cores of resin inclusions, also used in the petroleum industry and as polymers

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	208	2-methylimidazol e	211-765-	693-98-1	Toxic for reproduction (Article 57c)	It is used in the production of pharmaceutical intermediates such as metronidazole, and is used as a curing agent for epoxy resins.
	207	Butyl 4-hydroxybenzoa te	202-318-	94-26-8	Endocrine disrupting properties (Article 57(f) - human health)	It is used for preservatives in daily chemical industry, medicine and food industry, as well as antiseptics for grease, starch paste, rubber solution, perfume, film, etc.
	206	Dibutylbis(pentan e-2,4-dionato-0, O')tin	245-152- 0	22673-19 -4	Toxic for reproduction (Article 57c)	Mainly used as room temperature silicone rubber curing catalyst, especially suitable for deacetated silicone products. It can also be used as a polyurethane coating catalyst.
	205	2-benzyl-2-dimet hylamino-4'-mor pholinobutyrophe none	404-360- 3	119313-1 2-1	Toxic for reproduction (Article 57c)	Used in UV curing coatings and inks.
The 22st batch	204	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	Equivalent level of concern having probable serious effects to environment (Articl e 57f) Equivalent level of concern having probable serious effects to human health (Article 57 f)	Perfluorobutane sulfonic acid are used as catalysts in polymer manufacturing and chemical synthesis.  Potassium of Perfluorobutane sulfonic acid are used as flame retardants in polycarbonate mainly in electrical and electronic equipment.

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	203	2-methyl-1-(4-me thylthiophenyl)-2 -morpholinoprop an-1-one	400-600- 6	71868-10 -5	Toxic for reproduction (Article 57c)	Used in painting art and electronic industry.
	202	Diisohexyl phthalate	276-090- 2	71850-09 -4	Toxic for reproduction (Article 57c)	It has the same potential as other phthalates (e.g. used as sealants, plasticizers in polymers etc.).
	201	2-methoxyethyl acetate	203-772- 9	110-49-6	Toxic for reproduction (Article 57 (c))	Not registered under REACH.
The	200	Tris(4-nonylphen yl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	Endocrine disrupting properties (Article 57(f) - environment)	Primarily used as an antioxidant to stabilise polymers.
21st batch	199	2,3,3,3-tetrafluor o-2-(heptafluoro propoxy)propioni c acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-	Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)	Processing aid in the production of fluorinated polymers.

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	198	4-tert-butylpheno	202-679-	98-54-4	Endocrine disrupting properties (Article 57(f) - environment)	Used in coating products, polymers, adhesives, sealants and for the synthesis of other substances.
	197	2,2-bis(4'-hydrox yphenyl)-4-methy lpentane	401-720- 1	6807-17- 6	Toxic for reproduction (Article 57c)	Potential use in thermal paper
	196	Benzo[k]fluoranth ene	205-916-	207-08-9	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	Widely used in coatings, adhesives etc.
The	195	Fluoranthene	205-912- 4	206-44-0	PBT (Article 57d) vPvB (Article 57e)	Widely used in coatings, adhesives etc.
20th batch	194	Phenanthrene	201-581-	85-01-8	vPvB (Article 57e)	Uses in Coatings and paints etc.
	193	Pyrene	204-927-	129-00-0	PBT (Article 57d) vPvB (Article 57e)	Chemical intermediate
	192	1,7,7-trimethyl-3- (phenylmethylen e)bicyclo[2.2.1]he ptan-2-one	239-139- 9	15087-24 -8	Endocrine disrupting properties (Article 57(f) - environment)	As a UV absorber, it can be used in anti-frost or other cosmetics, skin care products, daily necessities and textile products.
The 19th batch	191	Octamethylcyclot etrasiloxane (D4)	209-136- 7	556-67-2	PBT (Article 57d) vPvB (Article 57e)	Used in washing and cleaning products, polishes and waxes and cosmetics and personal care products.

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190	Decamethylcyclo pentasiloxane (D5)	208-764-	541-02-6	PBT (Article 57d) vPvB (Article 57e)	Used in washing and cleaning products, polishes and waxes, cosmetics and personal care products, textile treatment products and dyes.
189	Dodecamethylcyc lohexasiloxane (D6)	208-762-	540-97-6	PBT (Article 57d) vPvB (Article 57e)	Used in washing and cleaning products, polishes and waxes, cosmetics and personal care products.
188	Lead	231-100-	7439-92- 1	Toxic for reproduction (Article 57c)	Used in metals, welding and soldering products, metal surface treatment products, and polymers.
187	Disodium octaborate	234-541-	12008-41 -2	Toxic for reproduction (Article 57c)	Used in anti-freeze products, heat transfer fluids, lubricants and greases, and washing and cleaning products.
186	Benzo[ghi]peryle ne	205-883- 8	191-24-2	PBT (Article 57d) vPvB (Article 57e)	Not registered under REACH.  Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.
185	Terphenyl hydrogenated	262-967- 7	61788-32 -7	vPvB (Article 57e)	Used as a plastic additive, solvent, in coatings/inks, in adhesives and sealants, and heat transfer fluids.
184	Ethylenediamine (EDA)	203-468- 6	107-15-3	Respiratory sensitising properties (Article 57(f) - human health)	Used in adhesives and sealants, coating products, fillers, putties, plasters, modelling clay, pH regulators and water treatment products.

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	183	Benzene-1,2,4-tri carboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	209-008-	552-30-7	Respiratory sensitising properties (Article 57(f) - human health)	Used in the manufacture of esters and polymers.
	182	Dicyclohexyl phthalate (DCHP)	201-545- 9	84-61-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)	Used in plastisol, PVC, rubber and plastic articles. A further use is also as a phlegmatiser and dispersing agent for formulations of organic peroxides.
	181	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	-	13560-89 -9; 135821-7 4-8; 135821-0 3-3	vPvB	Used as a non-plasticising flame retardant, used in adhesives and sealants and in binding agents
The 18th batch	180	Benz[a]anthracen e	200-280-	56-55-3	Carcinogenic PBT vPvB	Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.
	179	Cadmium nitrate	233-710-	10325-94 -7	Carcinogenic Toxic	For the manufacture of glass, porcelain and ceramic products
	178	Cadmium carbonate	208-168- 9	513-78-0	Carcinogenic Toxic	Used as a pH regulator and in water treatment products, cosmetics and personal care products.

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	177	Cadmium hydroxide Chrysene	244-168- 5 205-923- 4	21041-95 -2 218-01-9	Carcinogenic Toxic  Carcinogenic PBT vPvB	Used in laboratory chemicals and for the manufacture of electrical, electronic and optical equipment.  Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.
	175	Reaction products of 1,3,4-thiadiazolid ine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with≥0.1% w/w 4-heptylphenol, branched and	-	-	Endocrine disruption	Used as a lubricant additive in lubricants and greases.
The 17th batch	174	Perfluorohexane- 1-sulphonic acid and its salts	-	-	vPvB	Anti-fouling, waterproof and non-stick treatment, normally used in in fire foam components, surfactants, fluoropolymer manufacturing, water proof & anti-stains protecting coating in paper and textile.

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	173	4,4' -isopropylidenedi phenol (bisphenol A; BPA)	201-245- 8	80-05-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)	Manufacture of polycarbonate, epoxy resins and chemicals; hardener in epoxy resins
The	172	Nonadecafluorod ecanoic acid (PFDA) and its sodium and ammonium salts	206-400- 3 - 221-470- 5	335-76-2 3830-45- 3 3108-42-	Toxic for reproduction (Article 57c) PBT (Article 57d)	Lubricant, wetting agent, plasticiser and corrosion inhibitor
16th batch	171	p-(1,1-dimethylpr opyl)phenol	201-280-	80-46-6	Equivalent level of concern having probable serious effects to environment (Articl e 57f)	Manufacture of chemicals and plastic products
	170	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	-	-	Equivalent level of concern having probable serious effects to environment (Articl e 57f)	Manufacture of polymers; formulation into lubricants

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		phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]				
The 15th batch	169	Benzo[def]chryse ne	200-028- 5	50-32-8	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57 d) vPvB (Article 57 e)	Mainly used in the flue gas of coal tar, carbon black, and various types of coal and oil burning, cigarette smoke, automobile exhaust, as well as coking, oil refining, asphalt, plastics and other industrial sewage.
	168	Nitrobenzene	202-716- 0	98-95-3	Toxic for reproduction (Article 57 c)	Manufacture of other substances
The 14th	167	2,4-di-tert-butyl- 6-(5-chlorobenzo triazol-2-yl)phen ol (UV-327)	223-383- 8	3864-99- 1	vPvB (Article 57 e)	UV-protection agents in coatings, plastics, rubber and cosmetics
batch	166	2-(2H-benzotriaz ol-2-yl)-4-(tert-b utyl)-6-(sec-butyl )phenol (UV-350)	253-037- 1	36437-37 -3	vPvB (Article 57 e)	UV-protection agents in coatings, plastics, rubber and cosmetics
	165	1,3-propanesulto ne	214-317- 9	1120-71- 4	Carcinogenic (Article 57 a)	Electrolyte fluid of lithium ion batteries

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	164	Perfluorononan-1 -oic-acid and its sodium and ammonium salts	206-801-	375-95-1 21049-39 -8 4149-60- 4	Toxic for reproduction (Article 57 c) PBT (Article 57 d)	Processing aid for fluoropolymer manufacture/lubricating oil additive/surfactant for fire extinguishers/cleaning agent/textile antifouling finishing agent/polishing surfactant/waterproofing agents and in liquid crystal display panels
The	163	1,2-benzenedicar boxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicar boxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	271-094- 0 272-013- 1	68515-51 -5 68648-93 -1	Toxic for reproduction (Article 57 c)	Mainly used as plasticizer and lubricant, used in the adhesive, paint, building material, PVC and art material (Such as modeling clay and finger paints etc.
13th batch	162	5-sec-butyl-2-(2, 4-dimethylcycloh ex-3-en-1-yl)-5- methyl-1,3-dioxa ne [1], 5-sec-butyl-2-(4, 6-dimethylcycloh ex-3-en-1-yl)-5- methyl-1,3-dioxa ne [2] [covering any of the individual	/	/	vPvB (Article 57e)	Used as fragrance, widely used in perfume, soap, detergent and other daily necessities; meanwhile, it is also widely used in shampoo and textile softener.

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		stereoisomers of				
		[1] and [2] or any				
		combination				
		thereof]				
					Carcinogenic	
					(Article 57 a);	
					Mutagenic (Article	
					57 b);	
					Toxic for	
	161	Cadmium fluoride	232-222-	7790-79-	reproduction	Used in phosphors, glass, and
		Cadmamitaonae	0	6	(Article 57 c);	nuclear reactor controls
					Equivalent level of	
					concern having	
					probable serious	
					effects to human	
					health (Article 57 f)	
					Carcinogenic	
					(Article 57 a);	
The					Mutagenic (Article	
12th					57 b);	
batch				10124-36	Toxic for	
	160	Cadmium	233-331-	-4;	reproduction	Used as a pigment, also used
	160	sulphate	6	31119-53	(Article 57 c);	in the production of solar cells
				-6	Equivalent level of	
					concern having	
					probable serious	
					effects to human	
					health (Article 57 f)	
		2-benzotriazol-2-				Used as plastic additive,
	159	yl-4,6-di-tert-but	223-346-	3846-71-	PBT (Article 57 d);	ultraviolet light absorber and
		ylphenol (UV-320)	6	7	vPvB (Article 57 e)	light stabilizer
		2-(2H-benzotriaz				Used as plastic additive,
	158	ol-2-yl)-4,6-ditert	247-384-	25973-55	PBT (Article 57 d);	ultraviolet light absorber and
		pentylphenol	8	-1	vPvB (Article 57 e)	light stabilizer
		Po, .p				

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		(UV-328)				
	157	2-ethylhexyl 10-ethyl-4,4-dioct yl-7-oxo-8-oxa-3, 5-dithia-4-stanna tetradecanoate	239-622-	15571-58 -1	Toxic for reproduction (Article 57 c)	Used as a stabiliser for PVC processing
	156	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioct yl-7-oxo-8-oxa-3, 5-dithia-4-stanna tetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2 -ethylhexyl)oxy]- 2-oxoethyl]thio]-4 -octyl-7-oxo-8-ox a-3,5-dithia-4-sta nnatetradecanoat e (reaction mass of DOTE and MOTE)	-	-	Toxic for reproduction (Article 57 c)	Used as a stabiliser for PVC processing
The 11th batch	155	Cadmium chloride	233-296- 7	10108-64 -2	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious	used for photocopying, dyeing and electroplating.

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					effects to human	
					health (Article 57 f)	
		1,2-Benzenedicar				
		boxylic acid,			Toxic for	Used as lubricant in steering
	154	dihexyl ester,	271-093-	68515-50	reproduction	fluid, and as plasticizers, also
		branched and	5	-4	(Article 57 c)	used in auto transmission
		linear			(rudete 37 c)	lubricants .
		uncai				Used as oxidant, disinfectants,
		Sodium	231-556-		Toxic for	fungicide, salt, deodorization
	153	peroxometaborat		7632-4-4	reproduction	_
		е	4		(Article 57 c)	agent, plating solution
						additives
		Sodium			Toxic for	
	152	perborate;	239-172-	-	reproduction	Used as oxidant, decolorizer
		perboric acid,	9;		(Article 57 c)	
		sodium salt			,	
					Carcinogenic	Used as pigment, also used in
					(Article 57a);	manufacturing of
		Cadmium	215-147-	1306-23-	Equivalent level of	photoresistors (light
	151	sulphide	8	6	concern having	dependent resistors) sensitive
		sutprilide	0		probable serious	
The					effects to human	to visible and near infrared
10th					health (Article 57 f)	light.
batch		Disodium				
		3,3'-[[1,1'-biphen				used to stain microscopic
	150	yl]-4,4'-diylbis(az	209-358-		Carcinogenic(Article	preparates, especially as a
	150	o)]	4	573-58-0	57a)	cytoplasm and erythrocyte
		bis(4-aminonapht			,	stain;
		halene-1-sulphon				···,
		naterie i sutpriori		l		

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	-t-) (C   D'				
	ate) (C.I. Direct				
	Red 28)				
	Disodium				
	4-amino-3-[[4'-[(2				
	,4-diaminophenyl				
	)azo][1,1'-biphen				used to: dye cellulose; dye
149	yl]-4-yl]azo]	217-710-	1937-37-	Carcinogenic	leather, plastics, used as a
	-5-hydroxy-6-(ph	3	7	(Article 57a)	resin filler; and produce
	enylazo)naphthal				aqueous inks.
	ene-2,7-disulpho				
	nate (C.I. Direct				
	Black 38)				
				Toxic for	
148	Dihexyl phthalate	201-559-	84-75-3	reproduction	Used as plasticizer for
		5		(Article 57 c)	cellulose & vinyl plastics.
					Used primarily as an
					accelerator for vulcanizing
	Imidazolidine-2-t				polychloroprene (neoprene)
					and polyacrylate rubbers, also
		202-506-		Toxic for	used in electroplating baths,
147	(2-imidazoline-2-	9	96-45-7	reproduction	as an
	thiol)			(Article 57 c)	intermediate in antioxidant
	-				production, and in dyes,
					pharmaceuticals,
					and synthetic resins.
				Toxic for	,
146	Lead di(acetate)	206-104-	301-04-2	reproduction	Used as sweetener, also used
	Lead dilacetate)	4	301-04-2	(Article 57 c)	in cosmetics
				Toxic for	
145	Trixylyl	246-677-	25155-23	reproduction	Used as flame-retardants and
	phosphate	8	-1	(Article 57 c)	plasticizers
				(7) (1)	

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	144	Cadmium	231-152- 8	7440-43- 9	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)	Used as cadmium electrode, pigment, paint, plastics, metal plating, alloy etc.
The 9th	143	Cadmium oxide	215-146- 2	1306-19- 0	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (effects on kidney and bone) (Article 57 f)	Used as cadmium electrode, pigment, paint, plastics, metal plating, alloy etc.
batch	142	Ammonium pentadecafluoroo ctanoate (APFO)	223-320- 4	3825-26- 1	Toxic for reproduction (Article 57 c); PBT (Article 57 d)	Used as PVC dispersant by emulsion polymerization
	141	Pentadecafluoroo ctanoic acid (PFOA)	206-397- 9	335-67-1	Toxic for reproduction (Article 57 c); PBT (Article 57 d)	Pharmaceutical and material Intermediates
	140	Dipentyl phthalate (DPP)	205-017- 9	131-18-0	Toxic for reproduction (Article 57 c)	The substance can be used as plasticizer of cellulose resin, polystyrene, and chlorinated rubber to characterize film products with well elasticity, weather ability and tensile strength









	139	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any			Equivalent level of concern having probable serious effects to the environment (due to the endocrine disrupting properties of the degradation products) (Article 57 f)	Mainly used in production of surfactant, and also used in fields of antioxygen, textile auxiliaries, lubricating oil additives, pesticide emulsifier, resin modifier, and resin and rubber stabilizer.
		combinations thereof]				
The	138	Bis(pentabromop henyl) ether (decabromodiphe nyl ether; DecaBDE)	214-604- 9	1163-19- 5	PBT (Article 57 d); vPvB (Article 57 e)	It is an efficient additive flame retardant, which is used in nylon fiber and polyester textiles.
8th batch	137	Pentacosafluorotr idecanoic acid	276-745- 2	72629-94 -8	vPvB (Article 57 e)	Pharmaceutical and material Intermediates
	136	Tricosafluorodod ecanoic acid	206-203-	307-55-1	vPvB (Article 57 e)	Pharmaceutical and material Intermediates
	135	Henicosafluoroun decanoic acid	218-165- 4	2058-94- 8	vPvB (Article 57 e)	Pharmaceutical and material Intermediates

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134	Heptacosafluorot etradecanoic acid	206-803-	376-06-7	vPvB (Article 57 e)	Pharmaceutical and material Intermediates
133	Diazene-1,2-dicar boxamide (C,C'-azodi(forma mide))	204-650- 8	123-77-3	Equivalent level of concern having probable serious effects to human health (Article 57 f)	Used as various vesicant of foamed plastic, which is applied to PVC, EVA, PP etc.
132	Cyclohexane-1,2- dicarboxylic anhydride Cyclohexane-1,2- dicarboxylic anhydride [1] cis-cyclohexane- 1,2-dicarboxylic anhydride [2] trans-cyclohexan e-1,2-dicarboxyli c anhydride [3] The individual cis- [2] and trans-	201-604- 9, 236-086- 3, 238-009- 9	85-42-7, 13149-00 -3, 14166-21 -3	Equivalent level of concern having probable serious effects to human health (Article 57 f)	Used as epoxy curing agent
131	Hexahydromethyl phthalic anhydride[1], Hexahydro-4-met hylphthalic anhydride[2], Hexahydro-1-met hylphthalic anhydride[3], Hexahydro-3-met hylphthalic anhydride[4]	247-094- 1, 243-072- 0, 256-356- 4, 260-566- 1	25550-51 -0, 19438-60 -9, 48122-14 -1, 57110-29 -9	Equivalent level of concern having probable serious effects to human health (Article 57 f)	Mainly used for the epoxy curing agent. Impregnation of coil of electrical equipments; casting of electrical components; and sealing of semiconductors, such as outdoor insulators, capacitors, light emitting diode, digital tube

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		[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by				
The 8th batch	130	this entry]  4-Nonylphenol, branched and linear[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	-	Equivalent level of concern having probable serious effects to the environment (Article 57 f)	Mainly used in production of surfactant, and also used in fields of antioxygen, textile auxiliaries, lubricating oil additives, pesticide emulsifier, resin modifier, and resin and rubber stabilizer.
	129	4-(1,1,3,3-tetram ethylbutyl)phenol , ethoxylated [covering	-	-	Equivalent level of concern having probable serious effects to the	Mainly used in production of surfactant, and also used in fields of antioxygen, textile auxiliaries, lubricating oil

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	well-defined substances and UVCB substances, polymers and homologues]			environment (Article 57 f)	additives, pesticide emulsifier, resin modifier, and resin and rubber stabilizer.
128	Methoxyacetic acid	210-894- 6	625-45-6	Toxic for reproduction (Article 57 c)	Organic chemical materials
127	N,N-dimethylfor mamide	200-679- 5	68-12-2	Toxic for reproduction (Article 57 c)	Mainly used for a polyacrylonitrile fiber spinning solvent; a gas absorber in the petrochemical industry; and the selectivity for acetylene absorption and separation and purification of butadiene, the solvent used in leather production, used for synthetic chlordimeform medicine in pesticides; used to synthesis sulfadiazine, doxycycline, cortisone, vitamin B6
126	Dibutyltin dichloride (DBTC)	211-670- 0	683-18-1	Toxic for reproduction (Article 57 c)	Pesticides, fungicides in paint
125	Lead monoxide (Lead oxide)	215-267- 0	1317-36- 8	Toxic for reproduction (Article 57 c)	Used as white lead pigment, the manufacture of lead soaps, metallurgical cosolvents, paint driers, ceramic materials, rubber vulcanization accelerator, pesticides, lead salt stabilizer in plastics materials, raw materials of lead glass

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						industry, and intermediate raw material of lead salt industry
	124	Orange lead (Lead tetroxide)	215-235- 6	1314-41- 6	Toxic for reproduction (Article 57 c)	Used in production of battery, glass, pottery, ceramic, and used as a protective surface layer of the anti-rust pigment and iron, as well as dyes and other synthetic organic oxidant
	123	Lead bis(tetrafluorobor ate)	237-486- 0	13814-96 -5	Toxic for reproduction (Article 57 c)	Used for plating of terne metal in printed circuit and lead low-temperature welding. Also used as an analytical reagent; can be used as the circuit boards, tin lead alloy plating in electroplating
The 8th batch	122	Trilead bis(carbonate)dih ydroxide	215-290- 6	1319-46- 6	Toxic for reproduction (Article 57 c)	Mainly used in paint, especially suitable for manufacturing antirust paint and outdoor paint
	121	Lead titanium trioxide	235-038- 9	12060-00 -3	Toxic for reproduction (Article 57 c)	Used for manufacturing complex electronic ceramics such as the BaTiO3-PbTiO3 and PbZrO3-PbTiO3, to improve the electrical properties of ceramics. Also used as a pigment for paint.
	120	Lead titanium zirconium oxide	235-727- 4	12626-81 -2	Toxic for reproduction (Article 57 c)	Used for manufacturing complex electronic ceramics to improve the electrical properties of ceramics. Also

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					used as a pigment for paint
119	Silicic acid, lead salt	234-363-	11120-22 -2	Toxic for reproduction (Article 57 c)	Mainly used in the manufacture of optical glass, CRT, optical fiber, household utensils and low melting point solder
118	Silicic acid (H2Si2O5), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	272-271- 5	68784-75	Toxic for reproduction (Article 57 c)	Used for manufacturing complex electronic ceramics to improve the electrical properties of ceramics.
117	1-bromopropane (n-propyl bromide)	203-445- 0	106-94-5	Toxic for reproduction (Article 57 c)	Used for the synthesis of pharmaceuticals, pesticides, dyes, spices, etc









	116	Methyloxirane (Propylene oxide)	200-879-	75-56-9	Carcinogenic (Article 57a); Mutagenic (Article 57b)	Used as important basic organic chemical synthesis of raw materials, mainly used for the production of polyether, propylene glycol. Propylene oxide derivatives are widely used in the automotive, construction, food, tobacco, pharmaceutical and cosmetics industries
The 8th batch	115	1,2-Benzenedicar boxylic acid, dipentylester, branched and linear	284-032- 2	84777-06 -0	Toxic for reproduction (Article 57 c)	The substance can be used as plasticizer of cellulose resin, polystyrene, and chlorinated rubber to characterize film products with well elasticity, weather ability and tensile strength
	114	Diisopentylphthal ate (DIPP)	210-088- 4	605-50-5	Toxic for reproduction (Article 57 c)	The substance can be used as plasticizer of cellulose resin, polystyrene, and chlorinated rubber to characterize film products with well elasticity, weather ability and tensile strength
	113	N-pentyl-isopent ylphthalate	-	776297-6 9-9	Toxic for reproduction (Article 57 c)	The substance can be used as plasticizer of cellulose resin, polystyrene, and chlorinated rubber to characterize film products with well elasticity, weather ability and tensile strength









112	1,2-diethoxyetha ne	211-076- 1	629-14-1	Toxic for reproduction (Article 57 c)	Used as acrylic resin, methacrylic resin, epoxy resin and a nitro group, and a solvent such as ethyl cellulose, but also as extraction agents in pharmaceutical industry; lubricating oil additives; paint remover; paint coatings; solvents, etc.
111	Acetic acid, lead salt, basic	257-175- 3	51404-69 -4	Toxic for reproduction (Article 57 c)	As analytical reagent, also used in the pharmaceutical industry
110	Lead oxide sulfate	234-853- 7	12036-76 -9	Toxic for reproduction (Article 57 c)	Use as white pigment and heat stabilizer in plastics.
109	[Phthalato(2-)]dio xotrilead	273-688- 5	69011-06 -9	Toxic for reproduction (Article 57 c)	Used as high-temperature electrical insulation materials, foam products and rolled products
108	Dioxobis(stearato )trilead	235-702- 8	12578-12 -0	Toxic for reproduction (Article 57 c)	Used for manufacturing complex electronic ceramics to improve the electrical properties of ceramics.
107	Fatty acids, C16-18, lead salts	292-966- 7	91031-62 -8	Toxic for reproduction (Article 57 c)	Used in manufacture of paint, printing ink
106	Lead cynamidate	244-073- 9	20837-86 -9	Toxic for reproduction (Article 57 c)	Mainly used in plating (both electrolytic and electroless) processes for electronic components (such as printed circuit boards).









	105	Lead dinitrate	233-245- 9	10099-74 -8	Toxic for reproduction (Article 57 c)	Milk yellow pigment. Used as coal agent In printing and dyeing industry. Used in production of other lead salts, lead dioxide and convergence agent. Tanning agent; Sensitizer. Used as flotation agents in mining industry.  Oxidant, as well as the analytical chemistry of chemical reagents
	104	Pentalead tetraoxide sulphate	235-067- 7	12065-90 -6	Toxic for reproduction (Article 57 c)	Used for manufacturing complex electronic ceramics to improve the electrical properties of ceramics.
The 8th batch	103	Pyrochlore, antimony lead yellow	232-382- 1	8012-00- 8	Toxic for reproduction (Article 57 c)	Used in manufacture of coloration of paint, printing ink, rubbers and plastic products.
	102	Sulfurous acid, lead salt, dibasic	263-467- 1	62229-08 -7	Toxic for reproduction (Article 57 c)	Used in manufacture of storage batteries, glasses, potteries and ceramic, also used as protective surface of rust resisting pigments and iron, and a oxidant of dyes and other organic compounds.
	101	Tetraethyllead	201-075- 4	78-00-2	Toxic for reproduction (Article 57 c)	Used for gasoline seismic additives to improve the octane number, and for organic synthesis
	100	Tetralead trioxide sulphate	235-380- 9	12202-17 -4	Toxic for reproduction (Article 57 c)	Used as a PVC stabilizer; having harmonized effects used with dibasic lead phosphate.

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		Trilead dioxide	235-252-	12141-20	Toxic for	Used for manufacturing complex electronic ceramics to
	99	phosphonate	2	-7	reproduction	improve the electrical
					(Article 57 c)	properties of ceramics.
						For organic synthesis or as a
			202 727		Carrinagania	solvent. Used in the production
	98	Furan	203-727-	110-00-9	Carcinogenic	of nitrofurazone. Furan is a
			3		(Article 57a)	nice rich electrophilic aromatic
						heterocyclic
						Used as food flavor, perfume
						fragrance and soap flavor; for
						phenols Ethoxylation; It is a
					Carcinogenic (Article 57a); Mutagenic (Article 57b)	very important plant mutagen
		Diethyl sulphate	200-589- 6	64-67-5		used to cultivate new varieties,
	97					fast and efficient; used as an
						excellent organic solvent and
					376)	extractant; also intermediates
						used to synthetic
						pharmaceuticals, paints, dyes,
						etc
						Used in the manufacture of
						dyes and methylating agents
						of amines and alcohols;
						Analytical reagent. Organic
						synthesis; Methylation
The	96	Dimethyl	201-058-	77-78-1	Carcinogenic	reagent; Solvents. Its vapor is
8th		sulphate	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(Article 57a)	highly toxic, was used as a
batch						poison gas of war. For the
						determination of the reagent
						of the coal tars; used in
						organic synthesis as a methyl
						substituted agent
	95	3-ethyl-2-methyl-	421-150-	143860-0	Toxic for	Used as a styrene
		2-(3-methylbutyl)	7	4-2	reproduction	polymerization inhibitors and

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-1,3-oxazolidine (Article 57 c) pesticide intermediates Dinoseb Toxic for Used as a styrene 201-861-(6-sec-butyl-2,4-88-85-7 reproduction polymerization inhibitors and dinitrophenol) (Article 57 c) pesticide intermediates used for the high-temperature 4,4'-methylenedi-212-658-Carcinogenic varnish, capacitor films, 93 838-88-0 o-toluidine 8 (Article 57a) printed circuit board and aviation parts Carcinogenic Used in production of heat 4,4'-oxydianiline 202-977-(Article 57a); 92 101-80-4 stability plastics and as and its salts 0 Mutagenic (Article cross-linking agent. 57b) Used as dye intermediates. Used in the synthesis of azo dyes, disperse dyes, oxazine Carcinogenic 4-aminoazobenz 200-453-91 60-09-3 dyes; also used in making (Article 57a) ene paints and pigments, as well as alcohol-soluble yellow and pH indicator 4-methyl-m-phen TDI, sulfur dyes, basic dyes, vlenediamine 202-453-Carcinogenic disperse dyes, pharmaceutical 90 95-80-7 (toluene-2,4-dia 1 (Article 57a) intermediates and other mine) organic synthesis 6-methoxy-m-tol 204-419-Carcinogenic Suitable for direct, disperse, 89 uidine 120-71-8 1 (Article 57a) reactive dyes Synthesis (p-cresidine) Dye and pesticide intermediates; also used for Biphenyl-4-ylami 202-177-Carcinogenic manufacturing scintillatort 88 92-67-1

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paraterphenyl; manufacturing

dyes; Cancer Research;
 organic synthesis;







	87	o-aminoazotolue ne [(4-o-tolylazo-o-t oluidine])	202-591- 2	97-56-3	Carcinogenic (Article 57a)	Used to make dyes and drugs, and used as a maroon base GBC (Fast Gamet GBC base, formerly known as purple caramel base G or GC)
	86	o-toluidine	202-429-	95-53-4	Carcinogenic (Article 57a)	Use as dye intermediates, organic synthesis and synthesis of saccharin
	85	N-methylacetami de	201-182- 6	79-16-3	Toxic for reproduction (Article 57 c)	pharmaceutical industry, catalyst, deacidifying agent
	84	1,2-bis(2-methox yethoxy)ethane (TEGDME; triglyme)	203-977-	112-49-2	Toxic for reproduction (Article 57c)	Mainly used as a solvent or as a processing aid in the manufacture and formulation of industrial chemicals. Minor use in brake fluids and repair of motor vehicles.
The 7th batch	83	1,2-dimethoxyeth ane; ethylene glycol dimethyl ether (EGDME)	203-794-	110-71-4	Toxic for reproduction (Article 57c)	Mainly used as a solvent or as a processing aid in the manufacture and formulation of industrial chemicals, including use as an electrolyte solvent in lithium batteries.
	82	Diboron trioxide	215-125- 8	1303-86-	Toxic for reproduction (Article 57c)	Used in a multitude of applications, e.g., in glass and glass fibres, frits, ceramics, flame retardants, catalysts, industrial fluids, metallurgy, adhesives, inks/paints, film developers solutions, detergents and cleaners, biocides and insecticides.

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81	Formamide	200-842-	75-12-7	Toxic for reproduction (Article 57c)	Mainly used as an intermediate. Minor uses as solvent, as reagent chemical (in the pharmaceutical industry) and as laboratory chemical. The substance seems further to be used in the agrochemical industry and as a plasticiser.
80	Lead(II) bis(methanesulfo nate)	401-750- 5	17570-76 -2	Toxic for reproduction (Article 57c)	Mainly used in plating (both electrolytic and electroless) processes for electronic components (such as printed circuit boards).
79	TGIC (1,3,5-tris(oxirany lmethyl)-1,3,5-tri azine-2,4,6(1H,3H ,5H)-trione)	219-514- 3	2451-62- 9	Mutagenic (Article 57b)	Mainly used as a hardener in resins and coatings; also used in inks for the printed circuit board industry, electrical insulation material, resin moulding systems, laminated sheeting, silk screen printing coatings, tools, adhesives, lining materials and stabilisers for plastics.
78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypro pyl]-1,3,5-triazine -2,4,6-(1H,3H,5H) -trione)	423-400- 0	59653-74 -6	Mutagenic (Article 57b)	Mainly used as a hardener in resins and coatings; also used in inks for the printed circuit board industry, electrical insulation material, resin moulding systems, laminated sheeting, silk screen printing coatings, tools, adhesives, lining materials and stabilisers for plastics.

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	77	4,4'-bis(dimethyl amino)benzophe none (Michler's ketone)	202-027- 5	90-94-8	Art. 57 carcinogenic	(a),	Intermediate in the manufacture of triphenylmethane dyes and other substances. Further potential uses include as additive (photosensitiser) in dyes and pigments, in dry film products, as a process chemical in the production of electronic circuit boards, in research and development applications.
	76	N,N,N',N'-tetrame thyl-4,4'-methyle nedianiline (Michler's base)	202-959- 2	101-61-1	Art. 57 carcinogenic	(a),	Intermediate in the manufacture of dyes and other substances. Used also as chemical reagent in research and development.
The 7th batch	75	[4-[4,4'-bis(dimet hylamino) benzhydrylidene] cyclohexa-2,5-die n-1-ylidene]dimet hylammonium chloride (C.I. Basic Violet 3)	208-953- 6	548-62-9	Art. 57 carcinogenic	(a),	Used mainly for paper colouring and inks supplied in printer cartridges and ball pens. Further uses include staining of dried plants, marker for increasing the visibility of liquids, staining in microbial and clinical laboratories.
	74	[4-[[4-anilino-1-n aphthyl][4-(dimet hylamino)phenyl] methylene]cycloh exa-2,5-dien-1-yl idene] dimethylammoni um chloride (C.I.	219-943- 6	2580-56- 5	Art. 57 carcinogenic	(a),	Used in the production of inks, cleaners, and coatings, as well as for dyeing of paper, packaging, textiles, plastic products, and other types of articles. It is also used in diagnostic and analytical applications.

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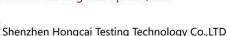




		Basic Blue 26)				
	73	α , α -Bis[4-(dimethyla mino)phenyl]-4 (phenylamino)na phthalene-1-met hanol (C.I. Solvent Blue 4)	229-851- 8	6786-83- 0	Art. 57 (a), carcinogenic	Mainly used in the production of printing and writing inks, for dyeing of paper and in mixtures such as windscreen washing agents.
	72	4,4'-bis(dimethyl amino)-4''-(meth ylamino)trityl alcohol	209-218-	561-41-1	Art. 57 (a), carcinogenic	Used in the production of writing inks and potentially in the production of other inks, as well as for dyeing of a variety of materials.
	71	Dichromium tris(chromate)	246-356- 2	24613-89 -6	Art. 57 (a), carcinogenic	used in mixtures to treat metal surfaces in the aeronautic/aerospace, steel and aluminium coating sectors
The 6th	70	Potassium hydroxyoctaoxodi zincatedichromat e	234-329- 8	11103-86 -9	Art. 57 (a), carcinogenic	used in the aeronautic/aerospace, steel, aluminium coil and vehicle coating sectors
batch	69	Pentazinc chromate octahydroxide	256-418- 0	49663-84 -5	Art. 57 (a), carcinogenic	used in the vehicle coating and aeronautic/aerospace sectors
	68	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-	Art. 57 (a), carcinogenic	used for high-temperature insulation in industrial applications and in fire protection
	67	Aluminosilicate Refractory Ceramic Fibres	-	-	Art. 57 (a), carcinogenic	used for high-temperature insulation in industrial applications and in fire

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protection Formaldehyde, oligomeric 500-036-25214-70 Art. 57 (a), used to manufacture other 66 reaction products 1 -4 carcinogenic substances with aniline little presumed use as ECHA Toxic for Bis(2-methoxyeth 204-212-65 117-82-8 reproduction has not received any yl) phthalate 6 (Article 57c) registration for the substance 2-Methoxyaniline 201-963-Art. 57 (a), used in the vehicle coating and 64 90-04-0 ; o-Anisidine 1 carcinogenic aeronautic/aerospace sectors Equivalent level of concern having mainly used to manufacture 4-(1,1,3,3-tetram 205-426probable serious 63 140-66-9 polymer preparations and ethylbutyl)phenol effects to the 2 ethoxylates environment (article 57 f) 1,2-dichloroethan used to manufacture other 203-458-Art. 57 (a), 62 107-06-2 carcinogenic substances Toxic for used to manufacture dyes for Bis(2-methoxyeth 203-924-61 reproduction 111-96-6 tattooing and colouring paper, yl) ether 4 (Article 57c) polymers and aluminium foil Arsenic acid is mainly used to remove gas bubbles from ceramic glass melt (fining The agent) and in the production of 6th 231-901-7778-39-Art. 57 (a), laminated printed circuit 60 Arsenic acid batch 9 carcinogenic boards. To lesser extent the 4 substance is also used in the manufacture of semiconductors and as laboratory agent.

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						procent in compley raw
			221 004	7770 44	0.1.57(-)	present in complex raw
	59	Calcium arsenate	231-904-	7778-44-	Art. 57 (a),	materials imported to
			5	1	carcinogenic	manufacture copper, lead and
						a range of precious metals.
	58	Trilead diarsenate	222-979- 5	3687-31- 8	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)	present in complex raw materials imported to manufacture copper, lead and a range of precious metals
						used as solvent and in
	57	N,N-dimethylacet	204-826-	127-19-5	Carcinogenic	industrial coatings, polyimide
	3,	amide (DMAC)	4	127-19-5	(article 57 a)	films, paint strippers and ink
						removers
		2,2'-dichloro-4,4'	202.010		Art 57 (a)	mainly used as curing agent in
	56 -methylenedianili ne (MOCA)	202-918- 9	101-14-4	Art. 57 (a), carcinogenic	resins and to produce polymer	
		ne (MOCA)	9		Carcinogenic	articles
						used as laboratory agent (in
	55	Phenolphthalein	201-004-	77-09-8	Art. 57 (a),	pH indicator solutions), to
		rnenotphthatem	7	77 07 0	carcinogenic	produce pH-indicator paper
						and in medicinal products
						Lead diazide is mainly used as
		Lead diazide,	236-542-	13424-46	Toxic for	initiator or booster in
	54	Lead diazide,	230-342-	-9	reproduction	detonators for both civilian
		Leau aziue	I	-9	(Article 57c)	and military uses and as
						initiator in pyrotechnic devices.
						Lead styphnate is mainly used
						as a primer for small calibre
			220 200	15245 44	Toxic for	and rifle ammunition. Other
	53	Lead styphnate	239-290-	15245-44	reproduction	common uses are in
			0	-0	(Article 57c)	ammunition pyrotechnics,
						powder actuated devices and
						detonators for civilian use.

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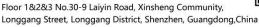




	52	Lead dipicrate	229-335-	6477-64- 1	Art. 57 (c), toxic for reproduction	No registration for lead dipicrate has been submitted to ECHA. The substance is an explosive like lead diazide and lead styphnate. It may be used in low amounts in detonator mixtures together with the two other mentioned lead compounds.
	51	2-ethoxyethyl acetate	203-839-	111-15-9	Art. 57 (c), toxic for reproduction	Main uses in the past were as solvent in coatings and in the chemical industry, but also as intermediate in the manufacture of cyanoacrylate adhesives.
The 5th	50	Strontium chromate	232-142- 6	7789-06- 2	Art. 57 (a), carcinogenic	Strontium chromate is mainly used as corrosion inhibitor in coating mixtures used in the eronautic/aerospace sector, in the coil coating sector of steel and aluminium and in the vehicle coating sector.
batch	49	1,2-Benzenedicar boxylic acid, di-C7-11-branche d and linear alkyl esters (DHNUP)	271-084- 6	68515-42 -4	Art. 57 (c), toxic for reproduction	Main uses in the past were as plasticizer in PVC, foam, adhesives and coatings.
	48	Hydrazine	206-114- 9	7803-57- 8 302-01-2	Art. 57 (a), carcinogenic	Hydrazine is mainly used as intermediate in the manufacture of hydrazine derivatives, as a monomer in polymerisations, as a corrosion inhibitor in water treatment and for metal reduction and

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					refining of chemicals. It is also used as a propellant for aerospace vehicles and as fuel in military (emergency) power units.
47	1-methyl-2-pyrrol idone	212-828-	872-50-4	Art. 57 (c), toxic for reproduction	1-methyl-2-pyrrolidone is mainly used as solvent in coatings, cleaning products, for electronic equipment manufacture, as well as in semiconductor industry, petrochemical processing, pharmaceuticals and agrochemicals.
46	1,2,3-trichloropro pane	202-486- 1	96-18-4	Art. 57 (a) & (c), carcinogenic & toxic for reproduction	1,2,3-trichloropropane is mainly used as intermediate in the manufacture of chlorinated solvents and agricultural products. It is also used as monomer. In the past 1,2,3-trichloropropane was used as solvent, paint and varnish remover and as degreasing agent.
45	1,2-Benzenedicar boxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	276-158- 1	71888-89 -6	Art. 57 (c), toxic for reproduction	Main uses in the past were as plasticiser in PVC and in sealants, coatings and potentially printing inks.

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						Mainly used in the production
						of other chemicals. Further
						applications may include
						manufacture of catalysts and
					Art. 57 (a) & (c),	driers, surface treatments
	44	Cobalt(II)	233-334-	10124-43	carcinogenic & toxic	(such as electroplating),
	44	sulphate	2	-3	for reproduction	corrosion prevention,
					Tol reproduction	production of pigments,
						decolourising (in glass,
						pottery), batteries, animal food
						supplement, soil fertilizer, and
						others.
						Mainly used in the production
					A.+ 57 (-) 0 (-)	of other chemicals and the
The	43	Cobalt(II)	233-402-	10141-05	Art. 57 (a) & (c),	manufacture of catalysts.
4th	.5	dinitrate	1	-6	carcinogenic & toxic	Further applications may
batch					for reproduction	include surface treatment and
						batteries.
		Cobalt(II)				Mainly used in the
						manufacture of catalysts.
			200 160		Art. 57 (a) & (c),	Minor uses may include feed
	42			513-79-1	carcinogenic & toxic	additive, production of other
		carbonate	4		for reproduction	chemicals, production of
						pigments, and adhesion (in
						ground coat frit).
						Mainly used in the
						manufacture of catalysts.
					A 1 57 (-) 0 (-)	Minor uses may include
	41	Cobalt(II)	200-755-	71 40 7		production of other chemicals,
	41	diacetate	8	/1-48-/	_	surface treatment, alloys, and
					for reproduction	production of pigments, dyes,
						rubber adhesion, and feed
						additive.
	42	carbonate Cobalt(II)		513-79-1 71-48-7	carcinogenic & toxic	Minor uses may include feed additive, production of other chemicals, production of pigments, and adhesion (in ground coat frit).  Mainly used in the manufacture of catalysts.  Minor uses may include production of other chemicals, surface treatment, alloys, and production of pigments, dyes, rubber adhesion, and feed

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	40	2-Methoxyethano	203-713-		Toxic for	Mainly used as solvent,
	40	ι	7	109-86-4	reproduction	chemical intermediate and
					(article 57c)	additive for fuels.
			203-804-		Toxic for	Mainly used as solvent and
	39	2-Ethoxyethanol		110-80-5	reproduction	chemical intermediate.
					(article 57c)	
		Chromium	215-607-	1333-82-	Carcinogenic and	Used for metal finishing and as
	38	trioxide	8	0	mutagenic (articles	fixing agent in waterborne
		trioxide			57 a and 57 b)	wood preservatives.
						These acids and their
						oligomers are generated when
						chromium trioxide is dissolved
		Acids generated	231-801-	7738-94-		in water.
	37	from chromium	5	5	Carcinogenic	Chromium trioxide is mainly
		trioxide and their	236-881-	13530-68	(article 57a)	used in form of aqueous
		oligomers	5	-2		solutions. Consequently, the
						uses of these substances are
						the same as indicated for
						chromium trioxide.
						· Cleaning and degreasing of
					Carcinogenic	metal parts
			201-167-			· Solvent in adhesives
	36	Trichloroethylene		79-01-6		·Intermediate in the
			4		category 2	manufacture of chlorinated
The						and fluorinated organic
3rd						compounds
batch						· Uses include a multitude of
						applications, e,g, in biocides
			233-139-	10043-35	Toyis for	and preservatives, personal
	35	Dorie said	2	-3	Toxic for	care products, food additives,
	رر	Boric acid	234-343-	11113-50	reproduction	glass, ceramics, rubber,
			4	-1	category 2	fertilisers, flame retardants,
						paints, industrial fluids, brake
						fluids, soldering products, film

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						developers.
	34	Disodium tetraborate, anhydrous	215-540- 4	1330-43- 4 12179-04 -3 1303-96- 4	Toxic for reproduction category 2	Uses include a multitude of applications, e;g; in glass and glass fibres, ceramics, detergents and cleaners, personal care products, industrial fluids, metallurgy, adhesives, flame retardants, biocides, fertilizers.
	33	Tetraboron disodium heptaoxide, hydrate	235-541-	12267-73 -1	toxic for reproduction category 2	Uses include a multitude of applications, e;g; in glass and glass fibres, ceramics, detergents and cleaners, personal care products, industrial fluids, metallurgy, adhesives, flame retardants, biocides, fertilizers.
The 3rd	32	Sodium chromate	231-889- 5	7775-11- 3	Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2	Laboratory (analytical agent)     Manufacture of other     chromium compounds
batch	31	Potassium chromate	232-140- 5	7789-00- 6	Carcinogenic category 2; mutagenic category 2	Treatment and coating of metals     Manufacture of reagents and chemicals     Manufacture of textiles     Colouring agent in ceramics

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The	29	Potassium dichromate	231-906-6	7778-50- 9	Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2	photosensitive screens (cathode ray tubes) · Metal treatment  · Chrome metal manufacturing · Treatment and coating of metals · Manufacture of reagents and chemicals  · Laboratory (analytical agent) · Cleaning of laboratory glassware · Tanning of leather · Manufacture of textiles · Photolithography · Wood treatment · Corrosion inhibitor in cooling systems
	30	Ammonium dichromate	232-143- 1	7789-9-5	Carcinogenic category 2; mutagenic category 2; toxic for reproduction	Tanning and dressing of leather  Manufacture of pigments/inks Laboratory (analyticalreagent) Pyrotechnics Oxidising agent Laboratory (analytical agent)  Tanning of leather Manufacture of textiles Manufacture of

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27	Anthracene oil, anthracene paste, distin.lights	295-278- 5	91995-17 -4	Art. 57 (c), toxic for reproduction	Seal coating, anti-corrosion oil, pesticides, materials of anthraquinone
26	Anthracene oil, anthracene paste, anthracene fraction	295-275- 9	91995-15 -2	Art. 57 (c), toxic for reproduction	Seal coating, anti-corrosion oil, pesticides, materials of anthraquinone
25	Anthracene oil, anthracene-low	292-604- 8	90640-82	Art. 57 (c), toxic for reproduction	Seal coating, anti-corrosion oil, pesticides, materials of anthraquinone
24	Anthracene oil,anthracene paste	292-603- 2	90640-81	Art. 57 (c), toxic for reproduction	Seal coating, anti-corrosion oil, pesticides, materials of anthraquinone
23	Diisobutyl phthalate (DIBP)	201-553-	84-69-5	Art. 57 (a), carcinogenic	Plasticizer
22	2,4-Dinitrotoluen e	204-450- 0	121-14-2	Art. 57 (a), carcinogenic	Material of explosives, poluurethane plastics, organic synthesis and dyes
21	Lead chromate	266-028- 2	65996-93 -2	Art. 57 (c), toxic for reproduction	Paint,moisture,adhesives
20	Tris(2-chloroethyl )phosphate	204-118- 5	115-96-8	Art. 57 (a), carcinogenic	Flame retardants,flame retardant plasticizer
19	Lead sulfochromate yellow(C.I.Pigmen t Yellow 34)	215-693- 7	1344-37- 2	Art. 57 (a), carcinogenic	Additives in coatings,paints and plastics
18	Lead chromate molybdate sulphate red (C.I.Pigment Red 104)	235-759- 9	12656-85 -8	Art. 57 (a), carcinogenic	Additives in coatings,paints and plastics

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		1				1
	17	Lead chromate	231-846-	7758-97- 6	Art. 57 (a), carcinogenic	Colorant in coatings,paints,rubber and plastic
	16	Acrylamide	201-173- 7	79-06-1	Art. 57 (a), carcinogenic	Preparation of acrylamide
	15	Anthracene	204-371-	120-12-7	PBT (article 57d)	Material of dyes and anthraquinone
	4,4'-  14 Diaminodiphenyl  methane (MDA)	202-974- 4	101-77-9	Carcinogenic category 2	Curing agent of PCB, Preparation of PU and azo dyes	
The 1st batch	13	Dibutyl phthalate (DBP)	201-557-	84-74-2	Toxic for reproduction (Article 57c); Endocrine disrupting properties (Article 57(f) - environment); Endocrine disrupting properties (Article 57(f) - human health)	sticizer in PVC and other plastic products
	12	Benzyl butyl phthalate (BBP)	201-622- 7	85-68-7	toxic for reproduction category 2	Plasticizer in PVC and acrylic resin

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					Cobalt dichloride is mainly
					used as intermediate in the
					manufacture of other cobalt
					compounds, in tyre adhesion
					additives, organic textile dyes,
					and drying agents for paints.
					Furthermore it is used in
11	Cobalt dichloride	231-589-	7646-79-	Art. 57 (c), toxic for	surface treatment processes,
	Coball dichloride	4	9	reproduction	as water treatment / corrosion
					inhibition chemical, as
					colourant or for discolouring in
					the production of inorganic
					pigments & frits, glass, and
					ceramic ware, in varistors and
					magnets, as well as in
					humidity indicators.
10	Diarsenic	215-116-	1303-28-	Carcinogenic	Pesticides, herbicides, wood
	pentaoxide	9	2	category 1	preservatives
9	Diarsenic trioxide	215-481-	1327-53-	Carcinogenic	Pesticides, herbicides, wood
	Diarseffic trioxide	4	3	category 1	preservatives
				Carcinogenic,	
			7789-12-	mutagenic and	
8	Sodium	234-190-	0,	toxic for	Mordant in the textile dye
	dichromate	3	10588-01	reproduction	industry
			-9	(articles 57a, 57b	
				and 57c)	
	5-tert-butyl-2,4,6				
7	-trinitro-m-xylene	201-329-	81-15-2	vPvB (Article 57e)	Artificial musk, used in
	(Musk xylene)	4	31 13 2		cosmetics and soaps
	(, lask xyterie)				
	Bis			Toxic for	
6	(2-ethylhexyl)pht	204-211-	117-81-7	reproduction	Commonly used plasticizers for
	halate (DEHP)	0		(Article 57c)	plastics, rubber, etc.
	(22/11/)			Endocrine	

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				disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)	
5	Hexabromocyclo dodecane	247-148- 4 221-695- 9	25637-99 -4, 3194-55- 6, 134237-5 0-6, 134237-5 1-7, 134237-5 2-8	PBT (Article 57d)	flame retardant
4	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476- 5	85535-84 -8	PBT (Article 57d) vPvB (Article 57e)	Flame retardants, plasticizers
3	Bis(tributyltin) oxide (TBTO)	200-268-	56-35-9	PBT (Article 57d)	Fungicides, protective agents for wood and textiles, heat stabilizers for plastics
2	Lead hydrogen arsenate	232-064-	7784-40- 9	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)	pesticides

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	1	Triethyl arsenate	427-700- 2	15606-95 -8	Carcinogenic (Article 57a)	wood preservatives
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