

## Statement of compliance to REACH

PANJIT INTERNATIONAL INC. manufactures only products according to REACH. These products are not intended to release any harmful substance under normal and reasonable foreseeable conditions of usage. Based on Regulation (EC) No.1907/2006 Article 33 of REACH, we will continue to monitor developments of the REACH legislation and are committed to meeting our responsibilities for protection of the environment.

### Article 33:

1. Any supplier of an article containing a substance meeting the criteria in Article 57 (Definition of SVHC) and identified in accordance with Article 59(1) (dossier for SVHC) in a concentration above 0.1 % weight by weight(w/w) ,shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.
  
2. On request by a consumer any supplier of an article containing a substance meeting the criteria in Article 57(Definition of SVHC) and identified in accordance with Article 59(1) (dossier for SVHC) in a concentration above 0.1% weight by weight (w/w) shall provide the consumer with sufficient information, available to the supplier, to allow safe use of the article including as a minimum, the name of that substance.

The relevant information shall be provided, free of charge, within 45 days of receipt of the request.

### Annex I

#### PANJIT products list regarding SVHC

Package	Function	PbO Yes / No (Weight of the part)	B <sub>2</sub> O <sub>3</sub> Yes / No (Weight of the part)	Pb Yes / No (Weight of the part)
DFN 2L	TVS/ESD	No	No	No
	SWITCHING	No	No	No
	SCHOTTKY	No	No	No
	ZENER	No	No	No
DFN 3L	TVS/ESD	No	No	No
	SWITCHING	No	No	No
	MOSFET	No	No	No
	Transistors	No	No	No
SOD-123	TVS/ESD	No	No	No
	SWITCHING	No	No	No
	SCHOTTKY	No	No	No
	ZENER	No	No	No

SOD-323	TVS/ESD	No	No	No
	SWITCHING	No	No	No
	SCHOTTKY	No	No	No
	PIN	No	No	No
	ZENER	No	No	No
SOD-523	TVS/ESD	No	No	No
	SWITCHING	No	No	No
	SCHOTTKY	No	No	No
	PIN	No	No	No
	ZENER	No	No	No
SOD-723	TVS/ESD	No	No	No
	SWITCHING	No	No	No
	SCHOTTKY	No	No	No
	PIN	No	No	No
	ZENER	No	No	No
SOD-923	TVS/ESD	No	No	No
	SWITCHING	No	No	No
	SCHOTTKY	No	No	No
SOD-123FL	TVS	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
	ZENER	4.8%*	No	92.5%*
	General	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	Super Fast	4.8%*	No	92.5%*
SOD-123HE	SCHOTTKY	No	No	92.5%*
	General	4.8%*	No	92.5%*
SOD-323HE	SCHOTTKY	No	No	92.5%*
	General	4.8%*	No	92.5%*
SOT-23	TVS/ESD	No	No	No
	SWITCHING	No	No	No
	MOSFET	No	No	No
	SCHOTTKY	No	No	No
	Transistors	No	No	No
	PIN	No	No	No
	ZENER	No	No	No

SOT-323	TVS/ESD	No	No	No
	SWITCHING	No	No	No
	MOSFET	No	No	No
	SCHOTTKY	No	No	No
	Transistors	No	No	No
	ZENER	No	No	No
SOT-363	TVS/ESD	No	No	No
	SWITCHING	No	No	No
	MOSFET	No	No	No
	SCHOTTKY	No	No	No
	SKY / ESD	No	No	No
	Transistors	No	No	No
	ZENER	No	No	No
SOT-23 6L	TVS/ESD	No	No	No
	SWITCHING	No	No	No
	SCHOTTKY	No	No	No
	SKY / ESD	No	No	No
	MOSFET	No	No	No
	Transistors	No	No	No
SOT-353	TVS/ESD	No	No	No
SOT-23 5L	TVS/ESD	No	No	No
SOT-223	Transistors	No	No	No
	MOSFET	No	No	No
SOT-523	TVS/ESD	No	No	No
	SWITCHING	No	No	No
	MOSFET	No	No	No
	SCHOTTKY	No	No	No
	Transistors	No	No	No
	ZENER	No	No	No
	ZENER ESD	No	No	No
SOT-563	TVS/ESD	No	No	No
	SWITCHING	No	No	No
	SCHOTTKY	No	No	No
	SKY / ESD	No	No	No
	Transistors	No	No	No
SOT-723	MOSFET	No	No	No

SOT-553	TVS/ESD	No	No	No
DO-218AC	TVS	4.8%*	No	92.5%*
SC-59	MOSFET	No	No	No
SOT-143	TVS/ESD	No	No	No
	PIN	No	No	No
SOT-543	TVS/ESD	No	No	No
SMA	General	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	Super Fast	4.8%*	No	92.5%*
	TVS	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
	ZENER	No	No	92.5%*
SMB	General	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	Super Fast	4.8%*	No	92.5%*
	TVS	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
	ZENER	No	No	92.5%*
SMC	General	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	Super Fast	4.8%*	No	92.5%*
	TVS	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
	ZENER	No	No	92.5%*
SMAF	General	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	Super Fast	4.8%*	No	92.5%*

	TVS	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
	ZENER	No	No	92.5%*
SMBF	General	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	Super Fast	4.8%*	No	92.5%*
	TVS	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
	ZENER	No	No	92.5%*
SMA(W)	General	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
TO-277/TO-277B	Super Fast	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	MOSFET	No	No	92.5%*
	SCHOTTKY	No	No	92.5%*
TO-277A	SCHOTTKY	No	No	92.5%*
TO-277C	SCHOTTKY	No	No	92.5%*
TO-220AB	SCHOTTKY	No	No	88%*
	Super Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	MOSFET	No	No	92.5%*
ITO-220AB	SCHOTTKY	No	No	88%*
	Super Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
TO-220AC	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	SCHOTTKY	No	No	88%*
	Super Fast	4.8%*	No	92.5%*

ITO-220AC	Ultra Fast	4.8%*	No	92.5%*
	SCHOTTKY	No	No	88%*
	Super Fast	4.8%*	No	92.5%*
D PAK(TO-252 )	MOSFET	No	No	92.5%*
	SCHOTTKY	No	No	88%*
	Super Fast	4.8%*	No	92.5%*
D 2 PAK(TO-263)	MOSFET	No	No	92.5%*
	SCHOTTKY	No	No	88%*
	Super Fast	No	No	92.5%*
	Fast	No	No	92.5%*
	Ultra Fast	No	No	92.5%*
TO-3P (TO-247AD)	SCHOTTKY	No	No	88%*
TO-3PS (TO-247S )	SCHOTTKY	No	No	88%*
D PAK (TO-251AB )	SCHOTTKY	No	No	88%*
	Super Fast	4.8%*	No	92.5%*
R-1	Super Fast	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	General	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
	ZENER	No	No	92.5%*
A-405	Super Fast	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	General	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
DO-41	ZENER	No	No	92.5%*
	TVS	4.8%*	No	92.5%*

	SCHOTTKY	No	No	92.5%*
	Super Fast	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	General	4.8%*	No	92.5%*
DO-15	ZENER	No	No	92.5%*
	TVS	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
	Super Fast	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	General	4.8%*	No	92.5%*
DO-201AD	General	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
	Super Fast	4.8%*	No	92.5%*
DO-201AE	TVS	4.8%*	No	92.5%*
	ZENER	No	No	92.5%*
P-600	General	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
	Super Fast	4.8%*	No	92.5%*
	TVS	4.8%*	No	92.5%*
DIP	General	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*
SDIP	General	4.8%*	No	92.5%*
	Fast	4.8%*	No	92.5%*
	Ultra Fast	4.8%*	No	92.5%*

MDI	General	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
ABS	General	20%*	No	92.5%*
MBF	General	4.8%*	No	92.5%*
TDI(MICRO DIP)	General	4.8%*	No	92.5%*
	SCHOTTKY	No	No	92.5%*
KBU	General	6.5%*	No	92.5%*
FL	General	6.5%*	No	92.5%*
KBL	General	6.5%*	No	92.5%*
GBU	General	4.55%*	No	92.5%*
GBP	General	8.0%*	No	92.5%*
KBPF	General	6.5%*	No	92.5%*
GBJ	General	8.0%*	No	92.5%*
KBJ	General	4.55%*	No	92.5%*
RB-10/AM	General	8.0%*	No	92.5%*
SBU	General	8.0%*	No	92.5%*
GBL	General	6.5%*	No	92.5%*
DFN2510-10L	TVS/ESD	No	No	No
DO-34	SWITCHING	61.35%*	3%	No
	ZENER	61.35%*	3%	No
DO-35	SWITCHING	61.35%*	3%	No
	ZENER	61.35%*	3%	No
Mini Melf (LL-34)	SWITCHING	58%*	No	No
	ZENER	58%*	No	No
	SCHOTTKY	58%*	No	No
Micro Melf	SWITCHING	61.35%*	3%	No
	ZENER	61.35%*	3%	No
	SCHOTTKY	61.35%*	3%	No
Quadro Melf	SWITCHING	61.35%*	3%	No
	ZENER	61.35%*	3%	No
	SCHOTTKY	61.35%*	3%	No
DO-41G	ZENER	58%*	No	No
DL-41	ZENER	58%*	No	No



**\*Note1 :** According to "Guidance for Annex V Exemptions from the obligation to register (ECHA-10-G-02-EN)" from "Regulation (EC) No 987/2008" and refer to the link below:  
[http://home.jeita.or.jp/ecb/pdf/PbO\\_glass\\_e.pdf](http://home.jeita.or.jp/ecb/pdf/PbO_glass_e.pdf)

PbO noted as the ceramic matrix and the chemical compound created is not a substance of Very High Concern (SVHC).

**\*Note2 :** Refer to the following statement, no obligations should arise under REACH, "Position paper no diboron trioxide(B<sub>2</sub>O<sub>3</sub>)under REACH":

<http://www.zvei.org/Publikationen/Position%20paper%20on%20diboron%20trioxide.pdf>

B<sub>2</sub>O<sub>3</sub> is used as a base substance in production, but is not part of the finished product, the chemical compound created is not a substance of Very High Concern(SVHC).

**\*Note3 :** Articles already covered by specific Union legislation regulating lead content or migration should, for reasons of consistency, be exempted.

Amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ('REACH') as regards lead and its compounds.

[https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\\_2015.104.01.0002.01.ENG](https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L_2015.104.01.0002.01.ENG)

## Annex II REACH SVHC list

The first list of SVHC (ECHA/PR/08/34)

Helsinki, 9 October 2008

#	Substance name	CAS number	EC number	Basis for Identification as a SVHC
1	Anthracene	120-12-7	204-371-1	Persistent, bioaccumulative and toxic
2	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	Carcinogen, cat.2
3	Dibutyl phthalate (DBP)	84-74-2	201-557-4	Toxic for reproduction, cat.2
4	Cobalt dichloride*	7646-79-9	231-589-4	Carcinogen, cat.2
5	Diarsenic pentaoxide*	1303-28-2	215-116-9	Carcinogen, cat.1
6	Diarsenic trioxide*	1327-53-3	215-481-4	Carcinogen, cat.1
7	Sodium dichromate	7789-12-0 10588-01-9	234-190-3	Carcinogen, cat.2; Mutagen, cat.2 Toxic for reproduction, cat.2
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	Very persistent and very bioaccumulative
9	Bis (2-ethyl(hexyl)phthalate)	117-81-7	204-211-0	Toxic for reproduction, cat.2

10	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ – HBCDD, $\beta$ -HBCDD, $\gamma$ -	25637-99-4 3194-55-6 (134237-51-7 134237-50-6, 134237-52-8)	247-148-4 221-695-9	Persistent, bioaccumulative and toxic
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	Persistent, bioaccumulative and toxic Very persistent and very bioaccumulative
12	Bis(tributyltin)oxide	56-35-9	200-268-0	Persistent, bioaccumulative and toxic
13	Lead hydrogen arsenate*	7784-40-9	232-064-2	Carcinogen, cat.1 Toxic for reproduction cat.1
14	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	Toxic for reproduction, cat.2
15	Triethyl arsenate	15606-95-8	427-700-2	Carcinogen, cat.1

The second batch of SVHC list (ECHA/PR/09/12)

Helsinki, 01 September 2009

#	Substance name	CAS number	EC number	Proposed SVHC property
16	Anthracene oil	90640-80-5	292-602-7	Persistent, bioaccumulative and toxic
17	Anthracene oil, anthracene paste, distn. lights *	91995-17-4	295-278-5	Persistent, bioaccumulative and toxic
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	Persistent, bioaccumulative and toxic
19	Anthracene oil, anthracene -low	90640-82-7	292-604-8	Persistent, bioaccumulative and toxic
20	Anthracene oil, anthracene paste	90640-81-6	292-603-2	Persistent, bioaccumulative and toxic
21	Diisobutyl phthalate	84-69-5	201-553-2	Toxic for reproduction, category 2
22	2,4-Dinitrotoluene	121-14-2	204-450-0	Carcinogen, category 2
23	Coal tar pitch, high temperature	65996-93-2	266-028-2	Persistent, bioaccumulative and toxic;carcinogen, category 2
24	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	Toxic for reproduction, category 2
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	Carcinogen, category 2; toxic for reproduction, category 1
26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	Carcinogen, category 2; toxic for reproduction, category 1

27	Lead chromate	7758-97-6	231-846-0	Carcinogen, category 2; toxic for reproduction, category 1
28	Acrylamide	79-06-1	201-173-7	Carcinogen, category 2; mutagen, category 2

The third list of SVHC (ECHA/PR/10/12)

Helsinki, 18 June 2010

#	Substance name	CAS number	EC number	Proposed SVHC property
29	Trichloroethylene	79-01-6	201-167-4	Carcinogenic category 2
30	Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4	Toxic for reproduction category 2
31	Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4	215-540-4	Toxic for reproduction category 2
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	Toxic for reproduction category 2
33	Sodium chromate	7775-11-3	231-889-5	Carcinogen, category 2;mutagen, category 2; toxic for reproduction category 2
34	Potassium chromate	7789-00-6	232-140-5	Carcinogen, category 2;mutagen, category 2
35	Ammonium dichromate	7789-09-5	232-143-1	Carcinogen, category 2;mutagen, category 2; toxic for reproduction category 2
36	Potassium dichromate	7778-50-9	231-906-6	Carcinogen, category 2;mutagen, category 2; toxic for reproduction category 2

The fourth batch of SVHC list (ECHA/PR/10/16)

Helsinki, 30 August 2010

#	Substance name	CAS number	EC number	Proposed SVH property
37	Cobalt(II) sulphate	111-15-9	203-839-2	CMR(carcinogen, cat. 2;toxic for reproduction, cat.2)
38	Cobalt(II) dinitrate	215-10-68	232-142-6	CMR(carcinogen, cat. 2; toxic for reproduction, cat.2)
39	Cobalt(II) carbonate	68515-42-4	271-084-6	CMR(carcinogen, cat. 2;toxic for reproduction, cat.2)
40	Cobalt(II) diacetate	206-114-9	7803-57-8 302-01-2	CMR(carcinogen, cat. 2;toxic for reproduction, cat.2)
41	2-Methoxyethanol	872-50-4	212-828-1	CMR(toxic for reproduction, cat.2)
42	2-Ethoxyethanol	96-18-4	202-486-1	CMR(toxic for reproduction, cat.2)

43	Chromium trioxide	71888-89-6	276-158-1	CMR(carcinogen, cat 1;mutagen,cat.2)
44	Acids generated from chromium trioxide and their oligomers			
	Chromic acid	7738-94-5	231-801-5	CMR(carcinogen, cat.2)
	Dichromic acid	13530-68-2	236-881-5	
	Oligomers of chromic acid and dichromic acid	-	-	

The fifth batch of SVHC list (ECHA/PR/11/15)

Helsinki, 20 June 2011

#	Substance name	CAS number	EC number	Proposed SVHC property
45	2-ethoxyethyl acetate	111-15-9	203-839-2	Art. 57(c), toxic for reproduction
46	strontium chromate	7789-06-2	232-142-6	Art. 57(a),carcinogenic
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	Art. 57(c), toxic for reproduction
48	Hydrazine	7803-57-8 302-01-2	206-114-9	Art. 57(a),carcinogenic
49	1-methyl-2-pyrrolidone	872-50-4	212-828-1	Art. 57(c), toxic for reproduction
50	1,2,3-trichloropropane	96-18-4	202-486-1	Art. 57(a)&(c),carcinogenic& toxic for reproduction
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich(DIHP)	71888-89-6	276-158-1	Art. 57(c), toxic for reproduction

The sixth batch of SVHC list (ED/77/2011)

Helsinki, 19 December 2011

#	Substance name	CAS number	EC number	Proposed SVHC property
52	Dichromium tris(chromate)	24613-89-6	246-356-2	Carcinogenic (article 57 a)
53	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8	Carcinogenic (article 57 a)
54	Pentazinc chromate octahydroxide	49663-84-5	256-418-0	Carcinogenic (article 57 a)
55	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	Carcinogenic (article 57 a)
56	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	Toxic for reproduction (article 57c)
57	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	Carcinogenic (article 57a)

58	4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	Equivalent level of concern having probable serious effects to the environment (article 57f)
59	1,2-Dichloroethane	107-06-2	203-458-1	Carcinogenic (article 57a)
60	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	Toxic for reproduction (article 57c)
61	Arsenic acid	7778-39-4	231-901-9	Carcinogenic (article 57a)
62	Calcium arsenate	7778-44-1	231-904-5	Carcinogenic (article 57a)
63	Trilead diarsenate	3687-31-8	222-979-5	Carcinogenic and toxic for reproduction (articles 57a ,57c)
64	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	Toxic for reproduction (article 57c)
65	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	Carcinogenic (article 57a)
66	Phenolphthalein	77-09-8	201-004-7	Carcinogenic (article 57a)
67	Lead azide Lead diazide	13424-46-9	236-542-1	Toxic for reproduction (article 57c)
68	Lead styphnate	15245-44-0	239-290-0	Toxic for reproduction (article 57c)
69	Lead dipicrate	6477-64-1	229-335-2	Toxic for reproduction (article 57c)
70	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	-	650-017-00-8	Carcinogenic(Article 57a)
71	Aluminosilicate Refractory Ceramic Fibres(RCF)	-	650-017-00-8	Carcinogenic(Article 57a)

The seventh batch of SVHC list (ECHA/PR/12/16)

Helsinki, 18 June 2012

#	Substance name	CAS number	EC number	Proposed SVHC property
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	Toxic for reproduction (article 57c)
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	Toxic for reproduction (article 57c)
74	Diboron trioxide	1303-86-2	215-125-8	Toxic for reproduction (article 57c)
75	Formamide	75-12-7	200-842-0	Toxic for reproduction (article 57c)
76	Lead(II) bis (methanesulfonate)	17570-76-2	401-750-5	Toxic for reproduction (article 57c)

77	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (TGIC)	2451-62-9	219-514-3	Mutagenic (Article 57 b)
78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC)	59653-74-6	423-400-0	Mutagenic (Article 57 b)
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	Carcinogenic (Article 57a)
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	Carcinogenic (Article 57a)
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylenecyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	219-943-6	Carcinogenic (Article 57a)
82	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	208-953-6	Carcinogenic (Article 57a)
83	4,4'-bis(dimethylamino)-4''-(methylamino) trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	209-218-2	Carcinogenic (Article 57a)
84	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	229-851-8	Carcinogenic (Article 57a)

#	Substance name	CAS number	EC number	Proposed SVHC property
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	PBT (Article 57 d); vPvB (Article 57 e)
86	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	vPvB (Article 57 e)
87	Tricosafuorododecanoic acid	307-55-1	206-203-2	vPvB (Article 57 e)
88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	vPvB (Article 57 e)
89	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	vPvB (Article 57 e)
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	Equivalent level of concern having probable serious effects to human health (Article 57 f)
91	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] <i>[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].</i>	85-42-7 13149-00-3 14166-21-3	201-604-9 236-086-3 238-009-9	Equivalent level of concern having probable serious effects to human health (Article 57 f)

92	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-Methylphthalic anhydride [3] Hexahydro-3-methylphthalic anhydride [4] [ <i>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 this entry</i> ]	25550-51-0 19438-60-9 48122-14-1 57110-29-9	247-094-1 243-072-0 256-356-4 260-566-1	Equivalent level of concern having probable serious effects to human health (Article 57 f)
93	4-Nonylphenol, branched and linear [ <i>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</i> ]	-	-	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
94	4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated [ <i>covering well-defined substances and UVCB substances, polymers and homologues</i> ]	-	-	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
95	Methoxyacetic acid	625-45-6	210-894-6	Toxic for reproduction (Article 57 c)
96	N,N-dimethylformamide	68-12-2	200-679-5	Toxic for reproduction (Article 57 c)
97	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	Toxic for reproduction (Article 57 c)
98	Lead monoxide (Lead oxide)	1317-36-8	215-267-0	Toxic for reproduction (Article 57 c)
99	Orange lead (Lead tetroxide)	1314-41-6	215-235-6	Toxic for reproduction (Article 57 c)
100	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	Toxic for reproduction (Article 57 c)



101	Trilead bis(carbonate) dihydroxide	1319-46-6	215-290-6	Toxic for reproduction (Article 57 c)
102	Lead titanium trioxide	12060-00-3	235-038-9	Toxic for reproduction (Article 57 c)
103	Lead titanium zirconium oxide	12626-81-2	235-727-4	Toxic for reproduction (Article 57 c)
104	Silicic acid, lead salt	11120-22-2	234-363-3	Toxic for reproduction (Article 57 c)
105	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped <i>[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]</i>	68784-75-8	272-271-5	Toxic for reproduction (Article 57 c)
106	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	Toxic for reproduction (Article 57 c)
107	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	Carcinogenic(Article 57a); Mutagenic(Article 57c)
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	Toxic for reproduction (Article 57 c)
109	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	Toxic for reproduction (Article 57 c)
110	N-pentyl-isopentylphthalate	776297-69-9	-	Toxic for reproduction (Article 57 c)
111	1,2-diethoxyethane	629-14-1	211-076-1	Toxic for reproduction (Article 57 c)
112	Acetic acid, lead salt, basic	51404-69-4	257-175-3	Toxic for reproduction (Article 57 c)
113	Lead oxide sulfate	12036-76-9	234-853-7	Toxic for reproduction (Article 57 c)
114	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5	Toxic for reproduction (Article 57 c)

115	Dioxo bis(stearato)trilead	12578-12-0	235-702-8	Toxic for reproduction (Article 57 c)
116	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	Toxic for reproduction (Article 57 c)
117	Lead cyanamidate	20837-86-9	244-073-9	Toxic for reproduction (Article 57 c)
118	Lead dinitrate	10099-74-8	233-245-9	Toxic for reproduction (Article 57 c)
119	Pentalead tetraoxide sulphate	12065-90-6	235-067-7	Toxic for reproduction (Article 57 c)
120	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	Toxic for reproduction (Article 57 c)
121	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	Toxic for reproduction (Article 57 c)
122	Tetraethyllead	78-00-2	201-075-4	Toxic for reproduction (Article 57 c)
123	Tetralead trioxide sulphate	12202-17-4	235-380-9	Toxic for reproduction (Article 57 c)
124	Trilead dioxide phosphonate	12141-20-7	235-252-2	Toxic for reproduction (Article 57 c)
125	Furan	110-00-9	203-727-3	Carcinogenic (Article 57a)
126	Diethyl sulphate	64-67-5	200-589-6	Carcinogenic(Article57a) Mutagenic (Article 57b)
127	Dimethyl sulphate	77-78-1	201-058-1	Carcinogenic (Article 57a)
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	Toxic for reproduction (Article 57c)
129	Dinoseb(6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	Toxic for reproduction (Article 57c)
130	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	212-658-8	Carcinogenic (Article 57a)
131	4,4'-oxydianiline and its salts	101-80-4	202-977-0	Carcinogenic(Article57a) Mutagenic (Article 57b)
132	4-aminoazobenzene	60-09-3	200-453-6	Carcinogenic (Article 57a)
133	4-methyl- <i>m</i> -phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	Carcinogenic (Article 57a)
134	6-methoxy- <i>m</i> -toluidine (p-cresidine)	120-71-8	204-419-1	Carcinogenic (Article 57a)
135	Biphenyl-4-ylamine	92-67-1	202-177-1	Carcinogenic (Article 57a)

136	<i>o</i> -aminoazotoluene [(4- <i>o</i> -tolylazo- <i>o</i> -toluidine)]	97-56-3	202-591-2	Carcinogenic (Article 57a)
137	<i>o</i> -toluidine	95-53-4	202-429-0	Carcinogenic (Article 57a)
138	<i>N</i> -methylacetamide	79-16-3	201-182-6	Toxic for reproduction (Article 57c)

The ninth batch list of SVHC (ECHA/PR/13/26)

Helsinki , 20 June 2013

#	Substance name	CAS number	EC number	Proposed SVHC property
139	Cadmium	7440-43-9	231-152-8	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to human health (Article 57 f)
140	Cadmium oxide	1306-19-0	215-146-2	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to human health (effects on kidney and bone) (Article 57 f)
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	Toxic for reproduction (Article 57 c) PBT (Article 57 d)
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
143	Dipentyl phthalate (DPP)	131-18-0	205-017-9	Toxic for reproduction (Article 57 c)
144	4-Nonylphenol, branched and linear, ethoxylated <i>[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 of the individual isomers and/or combinations thereof]</i>	-	-	Equivalent level of concern having probable serious effects to the environment (due to the endocrine disrupting properties of the degradation products) (Article 57 f)

## The tenth list of SVHC (ECHA/PR/13/40)

Helsinki, 3 Jan 2014

#	Substance name	CAS number	EC number	Proposed SVHC property
145	Cadmium sulphide	1306-23-6	215-147-8	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	Carcinogenic (Article 57a)
147	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	217-710-3	Carcinogenic (Article 57a)
148	Dihexyl phthalate	84-75-3	201-559-5	Toxic for reproduction (Article 57 c)
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	Toxic for reproduction (Article 57 c)
150	Lead di(acetate)	301-04-2	206-104-4	Toxic for reproduction (Article 57 c)
151	Trixylyl phosphate	25155-23-1	246-677-8	Toxic for reproduction (Article 57 c)

## The 11th batch of SVHC list (ECHA/PR/14/11)

Helsinki, 16 June 2014

#	Substance name	CAS number	EC number	Proposed SVHC property
152	Cadmium chloride	10108-64-2	233-296-7	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	Toxic for reproduction (Article 57 c)

154	Sodium peroxometaborate	7632-04-4	231-556-4	Toxic for reproduction (Article 57 c)
155	Sodium perborate; perboric acid, sodium salt	-	239-172-9 234-390-0	Toxic for reproduction (Article 57 c)

The 12th batch of SVHC list (ECHA/PR/14/18)

Helsinki, 17 December 2014

#	Substance name	CAS number	EC number	Proposed SVHC property
156	Cadmium fluoride	7790-79-6	232-222-0	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
157	Cadmium sulphate	10124-36-4 ; 31119-53-6	233-331-6	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	PBT (Article 57 d); vPvB (Article 57 e)
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	PBT (Article 57 d); vPvB (Article 57 e)
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	Toxic for reproduction (Article 57 c)
161	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)	-	-	Toxic for reproduction (Article 57 c)

## The 13th batch of SVHC list (ECHA/PR/15/09)

Helsinki, 15 June 2015

#	Substance name	CAS number	EC number	Proposed SVHC property
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	271-094-0 272-013-1	Toxic for reproduction (Article 57 c)
163	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]	-	-	vPvB (Article 57e)

## The 14th batch of SVHC list (ECHA/PR/15/18)

Helsinki, 17 December 2015

#	Substance name	CAS number	EC number	Proposed SVHC property
164	Nitrobenzene	98-95-3	202-716-0	Toxic for reproduction (article 57c)
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	vPvB (Article 57 e)
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	6437-37-3	253-037-1	vPvB (Article 57 e)
167	1,3-propanesultone	1120-71-4	214-317-9	Carcinogenic (Article 57 a)
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	Toxic for reproduction (article 57c) PBT (Article 57 d)

## The 15th batch of SVHC list (ECHA/PR/16/07)

Helsinki, 20 June 2016

#	Substance name	CAS number	EC number	Proposed SVHC property
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (article 57c) PBT (Article 57d) vPvB (Article 57e)

## The 16th batch of SVHC list (ECHA/NA/16/38)

Helsinki, 19 December 2016

#	Substance name	CAS number	EC number	Proposed SVHC property
170	4,4'-sopropylidenediphenol (bisphenol A)	80-05-7	201-245-8	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3108-42-7 3830-45-3	206-400-3 221-470-5	Toxic for reproduction (article 57c) PBT (Article 57d)
172	p-(1,1-dimethylpropyl) phenol = 4-tert-pentylphenol (PTAP)	80-46-6	201-280-9	Equivalent level of concern having probable serious effects to human health(Article 57f)
173	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]	-	-	Equivalent level of concern having probable serious effects to human health(Article 57f)

## The 17th batch of SVHC list (ECHA/PR/17/14)

Helsinki, 10 July 2017

#	Substance name	CAS number	EC number	Proposed SVHC property
174	Perfluorohexane-1-sulphonic acid and its salts, (PFHxS)	-	-	vPvB (Article 57e)

## The 18th batch of SVHC list (ECHA/PR/18/01)

Helsinki, 15 January 2018

#	Substance name	CAS number	EC number	Proposed SVHC property
175	Chrysene	218-01-9	205-923-4	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
176	Benz[a]anthracene	56-55-3	200-280-6	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
177	Cadmium nitrate	10325-94-7	233-710-6	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)

178	Cadmium hydroxide	21041-95-2	244-168-5	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
179	Cadmium carbonate	513-78-0	208-168-9	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-	vPvB (Article 57e)
181	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	-	-	Endocrine disrupting properties (Article 57(f) – environment)

The 19th batch of SVHC list (ECHA/PR/18/11)

Helsinki, 27 June 2018

#	Substance name	CAS number	EC number	Proposed SVHC property
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	PBT (Article 57d) vPvB (Article 57e)
183	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	PBT (Article 57d) vPvB (Article 57e)
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	PBT (Article 57d) vPvB (Article 57e)
185	Lead	7439-92-1	231-100-4	Toxic for reproduction (Article 57c)
186	Disodium octaborate	12008-41-2	234-541-0	Toxic for reproduction (Article 57c)
187	Benzo[ghi]perylene	191-24-2	205-883-8	PBT (Article 57d) vPvB (Article 57e)



188	Terphenyl hydrogenated	61788-32-7	262-967-7	vPvB (Article 57e)
189	Ethylenediamine (EDA)	107-15-3	203-468-6	Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (Trimellitic Anhydride) (TMA)	552-30-7	209-008-0	Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
191	Dicyclohexyl Phthalate (DCHP)	84-61-7	201-545-9	Toxic for reproduction (Article 57 c) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)

The 20th batch of SVHC list (ECHA/PR/19/01)

Helsinki, 15 January 2019

#	Substance name	CAS number	EC number	Proposed SVHC property
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	Toxic for reproduction (Article 57c)
193	Benzo[k]fluoranthene	207-08-9	205-916-6	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
194	Fluoranthene	206-44-0	205-912-4	PBT (Article 57d) vPvB (Article 57e)
195	Phenanthrene	85-01-8	201-581-5	vPvB (Article 57e)
196	Pyrene	129-00-0	204-927-3	PBT (Article 57d) vPvB (Article 57e)
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	239-139-9	Endocrine disrupting properties (Article 57(f) - environment)

The 21th batch of SVHC list (ECHA/PR/19/12)

Helsinki, 16 July 2019

#	Substance name	CAS number	EC number	Proposed SVHC property
198	2-methoxyethyl acetate	110-49-6	203-772-9	Toxic for reproduction (Article 57 (c))
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	Endocrine disrupting properties (Article 57(f) – environment)
200	4-tert-butylphenol	98-54-4	202-679-0	Endocrine disrupting properties (Article 57(f) – environment)

201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic 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)
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The 22th batch of SVHC list (ECHA/PR/20/02)

Helsinki, 16 January 2020

#	Substance name	CAS number	EC number	Proposed SVHC property
202	Diisohexyl phthalate	71850-09-4	276-090-2	Toxic for reproduction (Article 57 (c))
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	Toxic for reproduction (Article 57 (c))
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	Toxic for reproduction (Article 57 (c))
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	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)

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 HQD Quality System & Sustainability  
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2020.01.30