

#### No. CANEC2203944651

Date: 29 Mar 2022

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# . . . . . . . . . . . . . *.*

Sample Name :	DIODE,BRIDGE,TRANSISTOR
Client Ref. Info. :	SEE REMARK
Main Substance :	LEAD FRAME, LEAD, PLASTIC BODY—HF, PLATING, BLACK EPOXY, GLASS SLEEVES, DUMET, CADMIA, CASE, GPP DICE, DICE, SOLDER, SILICON RUBBER, INK, METAL LEAD

The above sample(s) and information were provided by the client.

SGS Job No. :	CP22-011251 - GZ
Internal Reference No. :	15910385
Date of Sample Received :	14 Mar 2022
Testing Period :	14 Mar 2022 - 22 Mar 2022
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).

#### **Result Summary :**

Test Requested	Conclusion
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS
Elementary Analysis	See Results
Halogen	See Results
Red Phosphor	See Results
AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Phthalate(s)	See Results
European Regulation POPs (EU) 2019/1021– Short-chain chlorinated paraffins (SCCPs) (C10~C13)	PASS
European Regulation POPs (EU) 2019/1021–Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	PASS
Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic Substances Control Act (TSCA) Section 6(h)	PASS



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Azo Dyes	See Results
European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 - PFOA and its salts, PFOS and its derivatives, PFOA-Related Substances	PASS
Signed for and on behalf of	

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Joury Zhong

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Test Results :

#### Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN22-039446.001	Copper-colored metal(1#)
SN2	CAN22-039446.002	Copper-colored metal(2#)
SN3	CAN22-039446.004	Silvery metal(4#)
SN4	CAN22-039446.005	Dark grey material(5#)
SN5	CAN22-039446.006	Black material(6#)
SN6	CAN22-039446.007	Colorless transparent glass tube(7#)
SN7	CAN22-039446.008	Copper-colored metal wire
SN8	CAN22-039446.009	Silvery metal(9#)
SN9	CAN22-039446.010	Black plastic(10#)
SN10	CAN22-039446.011	Silvery-grey pice(11#)
SN11	CAN22-039446.012	Silvery-grey pice(12#)
SN12	CAN22-039446.013	Silver-grey metal(13#)
SN13	CAN22-039446.014	White liquid(14#)
SN14	CAN22-039446.015	Silver-grey paste(15#)
SN15	CAN22-039446.016	Silvery metal(16#)

#### Remarks :

(1) 1 mg/kg = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected ( < MDL )</li>
(4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013 , IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017 , analyzed by ICP-OES , UV-Vis and GC-MS .

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>	<u>006</u>	<u>007</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	ND	13	366972▲
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1000	mg/kg	8	ND	ND	ND
Sum of PBBs	1000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND



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Test Report	No. CANEC22039446	651	Date: 2	29 Mar 20	Page 4 of 44	
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>005</u>	<u>006</u>	<u>007</u>
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	7	42031▲	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1000	mg/kg	8		ND	ND
Hexavalent Chromium (CrVI)	1000	mg/kg	8	ND		
Sum of PBBs	1000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>010</u>	<u>011</u>	<u>012</u>
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	ND
<u>Test Item(s)</u>	Limit	<u>Unit</u>	MDL	<u>014</u>	<u>015</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	
Lead (Pb)	1000	mg/kg	2	ND	ND	
Mercury (Hg)	1000	mg/kg	2	ND	ND	
Hexavalent Chromium (CrVI)	1000	mg/kg	8	ND	ND	
Sum of PBBs	1000	mg/kg	-	ND	ND	
Monobromobiphenyl	-	mg/kg	5	ND	ND	
Dibromobiphenyl	-	mg/kg	5	ND	ND	
Tribromobiphenyl	-	mg/kg	5	ND	ND	
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	
Pentabromobiphenyl	-	mg/kg	5	ND	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	
Sum of PBDEs	1000	mg/kg	-	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	
Tribromodiphenyl ether	~	mg/kg	5	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>014</u>	<u>015</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37,25

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

(4) ▲: According to the declaration from the client, Lead (Pb) in specimen 007,011 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(c)-I]: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>	<u>002</u>	<u>004</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1000	mg/kg	2	6	ND	36	
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND	ND	ND	
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>	<u>009</u>	<u>013</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1000	mg/kg	2	ND	17	943823▲	
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND	ND	ND	
Sum of PBBs	1000	mg/kg	-	ND		ND	



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<u>Test Item(s)</u>	Limit	<u>Unit</u>	MDL	<u>008</u>	<u>009</u>	<u>013</u>
Monobromobiphenyl	-	mg/kg	5	ND		ND
Dibromobiphenyl	-	mg/kg	5	ND		ND
Tribromobiphenyl	-	mg/kg	5	ND		ND
Tetrabromobiphenyl	-	mg/kg	5	ND		ND
Pentabromobiphenyl	-	mg/kg	5	ND		ND
Hexabromobiphenyl	-	mg/kg	5	ND		ND
Heptabromobiphenyl	-	mg/kg	5	ND		ND
Octabromobiphenyl	-	mg/kg	5	ND		ND
Nonabromobiphenyl	-	mg/kg	5	ND		ND
Decabromobiphenyl	-	mg/kg	5	ND		ND
Sum of PBDEs	1000	mg/kg	-	ND		ND
Monobromodiphenyl ether	-	mg/kg	5	ND		ND
Dibromodiphenyl ether	-	mg/kg	5	ND		ND
Tribromodiphenyl ether	-	mg/kg	5	ND		ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND		ND
Pentabromodiphenyl ether	-	mg/kg	5	ND		ND
Hexabromodiphenyl ether	-	mg/kg	5	ND		ND
Heptabromodiphenyl ether	-	mg/kg	5	ND		ND
Octabromodiphenyl ether	-	mg/kg	5	ND		ND
Nonabromodiphenyl ether	-	mg/kg	5	ND		ND
Decabromodiphenyl ether	-	mg/kg	5	ND		ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND		ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND		ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND		ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND		ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>016</u>		
Cadmium (Cd)	100	mg/kg	2	ND		
Lead (Pb)	1000	mg/kg	2	49		
Mercury (Hg)	1000	mg/kg	2	ND		
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND		

#### Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586

37,25

(3) v= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI



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# Test Report No. CANEC2203944651 Date: 29 Mar 2022 Page 8 of 44 b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The

- b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-CrVI based coating
- c. The result between 0.10  $\mu g/cm^2$  and 0.13  $\mu g/cm^2$  is considered to be inconclusive unavoidable coating variations may influence the determination
- Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.
- (4) A:According to the declaration from the client, Lead (Pb) in specimen 013 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(a)]: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

#### Elementary Analysis

Test Method : SGS In-house method (GZTC CHEM-TOP-009-01, with reference to EPA 3050B:1996), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>001</u>	<u>002</u>	<u>004</u>
Beryllium (Be)	mg/kg	5	ND	ND	ND
<u>Test Item(s)</u> Beryllium (Be)	<u>Unit</u> mg/kg	MDL 5	<u>016</u> ND		

#### <u>Halogen</u>

Test Method : With reference to EN 14582:2016, analysis was performed by IC.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>	<u>007</u>	<u>008</u>
Fluorine (F)	mg/kg	50	ND	ND	ND
Chlorine (Cl)	mg/kg	50	163	ND	ND
Bromine (Br)	mg/kg	50	ND	ND	ND
lodine (I)	mg/kg	50	ND	ND	ND
<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>011</u>	<u>012</u>	<u>013</u>
Fluorine (F)	mg/kg	50	ND	ND	ND
Chlorine (Cl)	mg/kg	50	ND	ND	ND
Bromine (Br)	mg/kg	50	ND	ND	ND
lodine (I)	mg/kg	50	ND	ND	ND



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<u>Test Item(s)</u> Fluorine (F) Chlorine (Cl) Bromine (Br) Iodine (I)	<u>Unit</u> mg/kg mg/kg mg/kg	<u>MDL</u> 50 50 50 50	<u>014</u> ND ND ND	<u>015</u> ND 307 ND ND	

## Red Phosphor

Test Method : SGS In-house method (SGS-CCL-TOP-215-01), analysis was performed by PY-GC/MS/ ICP-OES / GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>	<u>011</u>	<u>012</u>
Red phosphorus	mg/kg	500	ND	ND	ND

#### AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	MDL	005
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 4 PAHs (Phenanthrene, Pyrene, Anthracene,	-	mg/kg	-	ND
Fluoranthene)				
Sum of 15 PAHs	-	mg/kg	-	ND



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<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	006
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 4 PAHs (Phenanthrene, Pyrene	e, Anthracene, -	mg/kg	-	ND
Fluoranthene)				
Sum of 15 PAHs	-	mg/kg	-	ND
<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	MDL	<u>007</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 4 PAHs (Phenanthrene, Pyrene Fluoranthene)	, Anthracene, -	mg/kg	-	ND
Sum of 15 PAHs	-	mg/kg	-	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 4 PAHs (Phenanthrene, Pyrei Fluoranthene)	ne, Anthracene, -	mg/kg	-	ND
Sum of 15 PAHs	-	mg/kg	-	ND



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AfPS ( German commission for Product Safety ) : PAHs requirements

	Category 1 Category 2			Category 3	
Parameter (mg/kg)	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use	Atterials intended to be blaced in the mouth, or materials coming into ong-term contact with skin (more than 30s)		Materials cov by categor category 2, short-term ca 30s) with ski intended or us	y 1 nor by coming into ontact (up to in during the foreseeable
	Directive 2009/48/EC or -for the use by children <sup>a,b</sup> up to 3			a. use by children	b. other consumer products
Benzo(a)pyrene (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP)	<1	<	2	< 1	0
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Note:

<sup>a</sup> A "Child" is legally defined as a person before reaching the age of 14 years.

<sup>b</sup> Use by children includes both active and passive contact by children.

<sup>o</sup> Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No. 1272/2013)

<sup>d</sup> According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

**Remark:** The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

#### Phthalate(s)

Test Method : With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS



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<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	005
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.005	ND
	68515-48-0	· ,		
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.005	ND
	68515-49-1			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Dihexyl Phthalates (DHEXP/ DnHP)	84-75-3	%(w/w)	0.005	ND
<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	MDL	<u>006</u>
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.005	ND
	68515-48-0			
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.005	ND
	68515-49-1			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Dihexyl Phthalates (DHEXP/ DnHP)	84-75-3	%(w/w)	0.005	ND
<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>011</u>
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.005	ND
	68515-48-0			
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.005	ND
	68515-49-1			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Dihexyl Phthalates (DHEXP/ DnHP)	84-75-3	%(w/w)	0.005	ND
<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>013</u>
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.005	ND
	68515-48-0			
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.005	ND
	68515-49-1			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Dihexyl Phthalates (DHEXP/ DnHP)	84-75-3	%(w/w)	0.005	ND

## European Regulation POPs (EU) 2019/1021- Short-chain chlorinated paraffins (SCCPs) (C10~C13)

Test Method : With reference to ISO 18219-1:2021, analysis was performed by GC-NCI-MS.

<u>Test Item(s)</u>	CAS NO.	<u>Limit</u>	<u>Unit</u>	MDL	<u>005</u>
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	85535-84-8 and	1500	mg/kg	50	ND
Comment	others				PASS



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<u>Test Item(s)</u> Alkanes C10-C13, chloro (short-chair paraffins) (SCCPs)	n chlorinated	<u>CAS NO.</u> 85535-84-8 and others	<u>Limit</u> 1500	<u>Unit</u> mg/kg	<u>MDL</u> 50	<u>006</u> ND
Comment						PASS
<u>Test Item(s)</u> Alkanes C10-C13, chloro (short-chaiı paraffins) (SCCPs)	n chlorinated	<u>CAS NO.</u> 85535-84-8 and others	<u>Limit</u> 1500	<u>Unit</u> mg/kg	<u>MDL</u> 50	<u>007</u> ND
Comment						PASS
<u>Test Item(s)</u> Alkanes C10-C13, chloro (short-chair paraffins) (SCCPs)	n chlorinated	<u>CAS NO.</u> 85535-84-8 and others	<u>Limit</u> 1500	<u>Unit</u> mg/kg	<u>MDL</u> 50	008 ND
Comment						PASS
<u>Test Item(s)</u> Alkanes C10-C13, chloro (short-chair paraffins) (SCCPs)	n chlorinated	<u>CAS NO.</u> 85535-84-8 and others	<u>Limit</u> 1500	<u>Unit</u> mg/kg	<u>MDL</u> 50	<u>010</u> ND
Comment		othors				PASS
<u>Test Item(s)</u> Alkanes C10-C13, chloro (short-chair paraffins) (SCCPs)	n chlorinated	<u>CAS NO.</u> 85535-84-8 and others	<u>Limit</u> 1500	<u>Unit</u> mg/kg	<u>MDL</u> 50	<u>011</u> ND
Comment						PASS
<u>Test Item(s)</u> Alkanes C10-C13, chloro (short-chain paraffins) (SCCPs)	chlorinated	<u>CAS NO.</u> 85535-84-8 and others	<u>Limit</u> 1500	<u>Unit</u> mg/kg	<u>MDL</u> 50	<u>012</u> ND
Comment		outors				PASS
<u>Test Item(s)</u> Alkanes C10-C13, chloro (short-chain paraffins) (SCCPs)	chlorinated	<u>CAS NO.</u> 85535-84-8 and others	<u>Limit</u> 1500	<u>Unit</u> mg/kg	<u>MDL</u> 50	<u>013</u> ND
Comment						PASS
<u>Test Item(s)</u> Alkanes C10-C13, chloro (short-chain paraffins) (SCCPs)	chlorinated	<u>CAS NO.</u> 85535-84-8 and	<u>Limit</u> 1500	<u>Unit</u> mg/kg	<u>MDL</u> 50	<u>014</u> ND
Comment		others				PASS

#### European Regulation POPs (EU) 2019/1021-Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)



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#### Test Report No. CANEC2203944651 Date: 29 Mar 2022 Page 15 of 44 Test Method : With reference to IEC 62321-9:2021, analysis was performed by GC-MS. Test Item(s) CAS NO. <u>Limit</u> <u>Unit</u> MDL <u>005</u> Hexabromocyclododecane (HBCDD) and all major 25637-99-4 100 mg/kg 10 ND diastereoisomers identified (α-HBCDD, β-HBCDD, 3194-55-6 y-HBCDD) 134237-50-6 134237-51-7 134237-52-8 Comment PASS Test Item(s) CAS NO. <u>Limit</u> <u>Unit</u> MDL <u>006</u> Hexabromocyclododecane (HBCDD) and all major 25637-99-4 100 mg/kg 10 ND diastereoisomers identified (a-HBCDD, β-HBCDD, 3194-55-6 y-HBCDD) 134237-50-6 134237-51-7 134237-52-8 Comment PASS Test Item(s) CAS NO. MDL <u>Limit</u> <u>Unit</u> <u>007</u> Hexabromocyclododecane (HBCDD) and all major 25637-99-4 100 mg/kg 10 ND diastereoisomers identified (α-HBCDD, β-HBCDD, 3194-55-6 y-HBCDD) 134237-50-6 134237-51-7 134237-52-8 Comment PASS Test Item(s) CAS NO. <u>Unit</u> MDL <u>008</u> <u>Limit</u> Hexabromocyclododecane (HBCDD) and all major 25637-99-4 100 ma/ka 10 ND diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, 3194-55-6 y-HBCDD) 134237-50-6 134237-51-7 134237-52-8 Comment PASS Test Item(s) CAS NO. Limit <u>Unit</u> MDL <u>010</u> Hexabromocyclododecane (HBCDD) and all major 25637-99-4 100 mg/kg 10 ND diastereoisomers identified (α-HBCDD, β-HBCDD, 3194-55-6 γ-HBCDD) 134237-50-6 134237-51-7 134237-52-8 Comment PASS Test Item(s) CAS NO. MDL 011 Limit <u>Unit</u>



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Test Report	No. CANEC220	3944651	Date: 29 Mar 2022		Pa	Page 16 of 44	
<u>Test Item(s)</u> Hexabromocyclododecane (HBCDD) diastereoisomers identified (α-HBCD γ-HBCDD)		<u>CAS NO.</u> 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	<u>Limit</u> 100	<u>Unit</u> mg/kg	<u>MDL</u> 10	011 ND	
Comment						PASS	
<u>Test Item(s)</u> Hexabromocyclododecane (HBCDD) diastereoisomers identified (α-HBCD γ-HBCDD)	•	<u>CAS NO.</u> 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	<u>Limit</u> 100	<u>Unit</u> mg/kg	<u>MDL</u> 10	<u>012</u> ND	
Comment						PASS	
<u>Test Item(s)</u> Hexabromocyclododecane (HBCDD) diastereoisomers identified (α-HBCD γ-HBCDD)		CAS NO. 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	<u>Limit</u> 100	<u>Unit</u> mg/kg	<u>MDL</u> 10	<u>013</u> ND	
Comment						PASS	
<u>Test Item(s)</u> Hexabromocyclododecane (HBCDD) diastereoisomers identified (α-HBCDI γ-HBCDD)		CAS NO. 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	<u>Limit</u> 100	<u>Unit</u> mg/kg	<u>MDL</u> 10	<u>014</u> ND	
Comment		104207-02-0				PASS	
<u>Test Item(s)</u> Hexabromocyclododecane (HBCDD) diastereoisomers identified (α-HBCDI γ-HBCDD)		CAS NO. 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	<u>Limit</u> 100	<u>Unit</u> mg/kg	<u>MDL</u> 10	<u>015</u> ND	
Comment						PASS	

Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic Substances Control Act (TSCA) Section 6(h)



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Test Report	No. CANEC22	No. CANEC2203944651		9 Mar 2022	Pa	Page 17 of 44		
	GS In-house method (SGS-CCL- alysis was performed by GC-MS		ı reference	to US EPA	Method 3	3550C:2007),		
Phenol, isopropylate 2,4,6-Tris(tert-butyl) Hexachlorobutadien Pentachlorothiopher <b>Comment</b> <u>Test Item(s)</u> Decabromodiphenyl Phenol, isopropylate		<u>CAS NO.</u> 1163-19-5 68937-41-7 732-26-3 87-68-3 133-49-3 <u>CAS NO.</u> 1163-19-5 68937-41-7 732-26-3	Limit * 3000 * 10000 Limit * 3000	Unit mg/kg mg/kg mg/kg mg/kg <u>Unit</u> mg/kg mg/kg	MDL 5 5 5 5 5 <u>MDL</u> 5 5 5	005 ND ND ND ND PASS 006 ND ND ND		
Hexachlorobutadien Pentachlorothiopher <b>Comment</b>	e (HCBD)	87-68-3 133-49-3	* 10000	mg/kg mg/kg	5 5	ND ND PASS		
	d phosphate (3:1) (PIP 3:1)Δ² bhenol (2,4,6-TTBP)Δ³ e (HCBD)	<u>CAS NO.</u> 1163-19-5 68937-41-7 732-26-3 87-68-3 133-49-3	Limit ★ 3000 ★ 10000	<u>Unit</u> mg/kg mg/kg mg/kg mg/kg	MDL 5 5 5 5 5	007 ND ND ND ND PASS		
	d phosphate (3:1) (ΡΙΡ 3:1)Δ² henol (2,4,6-ΤΤΒΡ)Δ³ ອ (HCBD)	CAS NO. 1163-19-5 68937-41-7 732-26-3 87-68-3 133-49-3	Limit ★ 3000 ★ 10000	<u>Unit</u> mg/kg mg/kg mg/kg mg/kg	<u>MDL</u> 5 5 5 5 5	008 ND ND ND ND PASS		
	d phosphate (3:1) (PIP 3:1)Δ² henol (2,4,6-TTBP)Δ³ (HCBD)	<u>CAS NO.</u> 1163-19-5 68937-41-7 732-26-3 87-68-3 133-49-3	Limit ★ 3000 ★ 10000	<u>Unit</u> mg/kg mg/kg mg/kg mg/kg mg/kg	<u>MDL</u> 5 5 5 5 5	010 ND ND ND ND		



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Test Report No. CAN		03944651	Date: 29 Mar 2022		Pa	Page 18 of 44	
<u>Test Item(s)</u> Comment		<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	MDL	010 PASS	
<u>Test Item(s)</u> Decabromodiphenyl ether (Dec Phenol, isopropylated phospha 2,4,6-Tris(tert-butyl)phenol (2,4 Hexachlorobutadiene (HCBD) Pentachlorothiophenol (PCTP) <b>Comment</b>	te (3:1) (PIP 3:1)Δ²	<u>CAS NO.</u> 1163-19-5 68937-41-7 732-26-3 87-68-3 133-49-3	Limit * 3000 * 10000	<u>Unit</u> mg/kg mg/kg mg/kg mg/kg	MDL 5 5 5 5 5	011 ND ND ND ND ND <b>PASS</b>	
<u>Test Item(s)</u> Decabromodiphenyl ether (Dec Phenol, isopropylated phosphat 2,4,6-Tris(tert-butyl)phenol (2,4 Hexachlorobutadiene (HCBD) Pentachlorothiophenol (PCTP) <b>Comment</b>	e (3:1) (PIP 3:1)Δ²	<u>CAS NO.</u> 1163-19-5 68937-41-7 732-26-3 87-68-3 133-49-3	Limit * 3000 * 10000	<u>Unit</u> mg/kg mg/kg mg/kg mg/kg	<u>MDL</u> 5 5 5 5 5	012 ND ND ND ND PASS	
<u>Test Item(s)</u> Decabromodiphenyl ether (Deca Phenol, isopropylated phosphat 2,4,6-Tris(tert-butyl)phenol (2,4, Hexachlorobutadiene (HCBD) Pentachlorothiophenol (PCTP) <b>Comment</b>	e (3:1) (PIP 3:1)∆²	CAS NO. 1163-19-5 68937-41-7 732-26-3 87-68-3 133-49-3	<u>Limit</u> ★ 3000 ★ 10000	<u>Unit</u> mg/kg mg/kg mg/kg mg/kg	<u>MDL</u> 5 5 5 5 5	013 ND ND ND ND <b>PASS</b>	
<u>Test Item(s)</u> Decabromodiphenyl ether (Deca Phenol, isopropylated phosphat 2,4,6-Tris(tert-butyl)phenol (2,4, Hexachlorobutadiene (HCBD) Pentachlorothiophenol (PCTP) <b>Comment</b>	ə (3:1) (PIP 3:1)Δ²	CAS NO. 1163-19-5 68937-41-7 732-26-3 87-68-3 133-49-3	Limit * 3000 * 10000	<u>Unit</u> mg/kg mg/kg mg/kg mg/kg	MDL 5 5 5 5 5	014 ND ND ND ND <b>PASS</b>	

Notes :

1."★" = Prohibited

2. The regulation is available at the following link.

https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative-and-toxic -pbt-chemicals-under

3.  $\Delta^1$ : The submitted sample is exempted if it is plastic for recycling from products or articles containing Deca-BDE.



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4.  $\Delta^2$ : The submitted sample is exempted from the regulated scope if it is anyone of the following:

- Hydraulic fluids for aviation or military industry;
- Lubricants and grease;
- New and replacement parts for motor and aerospace vehicles;
- Intermediate in a closed system to produce cyanoacrylate adhesive;
- Specialized engine air filters for locomotive and marine applications;
- Plastic for recycling from products or articles containing PIP (3:1);
- Finished products or articles made of plastic recycled from products or articles containing PIP (3:1).
- 5.  $\Delta^3$ : The submitted sample is out of the regulated scope if it is not oil or lubricant.

#### <u>Azo Dyes</u>

Test Method : With reference to EN ISO 14362-1:2017 Annex F, analysis was conducted with GC-MS/HPLC-DAD. Determination of 4-aminoazobenzene (CAS No.:60-09-3) with reference to EN ISO 14362-3:2017, analysis was conducted with GC-MS/HPLC-DAD.

<u>Test Item(s)</u>	CAS NO.	Unit	<u>MDL</u>	<u>015</u>
4-Aminobiphenyl	92-67-1	mg/kg	5	ND
Benzidine	92-87-5	mg/kg	5	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND
2-naphthylamine	91-59-8	mg/kg	5	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND
4-chloroaniline	106-47-8	mg/kg	5	ND
4-methoxy-m-phenylenediamine /	615-05-4	mg/kg	5	ND
2,4-Diaminoanisole				
4,4'-diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4'-diami	838-88-0	mg/kg	5	ND
nodiphenylmethane				
p-cresidine	120-71-8	mg/kg	5	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND
o-toluidine	95-53-4	mg/kg	5	ND
4-methyl-m-phenylenediamine /	95-80-7	mg/kg	5	ND
2,4-Toluylendiamine, TDA				
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND



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<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>015</u>	
O-Anisidine	90-04-0	mg/kg	5	ND	
2,4-Xylidine	95-68-1	mg/kg	5	ND	
2,6-Xylidine	87-62-7	mg/kg	5	ND	

Notes :

1. Test was conducted as per client's request.

2. 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information. 3. In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.

4. EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.

## European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 - PFOA and its salts, PFOS and its derivatives, PFOA-Related Substances

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

<u>Test Item(s)</u>	CAS NO.	<u>Limit</u>	<u>Unit</u>	MDL	<u>004</u>
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	-	mg/kg	1	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	-	mg/kg	1	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	-	mg/kg	1	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	-	mg/kg	1	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	-	mg/kg	1	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	-	mg/kg	1	ND
Perfluorooctane Sulfonyl fluoride(POSF)*	307-35-7	-	mg/kg	1	ND
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	0.025	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	1000	mg/kg	-	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	-	mg/kg	0.2	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	-	mg/kg	0.2	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	-	mg/kg	0.2	ND



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<u>Test Item(s)</u>		CAS NO.	<u>Limit</u>	<u>Unit</u>	MDL	004
1H,1H,2H,2H-Perfluorodecyl acr	ylate (8:2 FTA)	27905-45-9	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl me FTMA)	thacrylate (8:2	1996-88-9	-	mg/kg	0.2	ND
Perfluoro-1-iodooctane (PFOI)		507-63-1	-	mg/kg	0.2	ND
PFOA related substances		-	1.0	mg/kg	-	ND
Comment						PASS
<u>Test Item(s)</u>		<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>005</u>
Perfluorooctane sulfonates (PFO	S) ^	1763-23-1	-	mg/kg	1	ND
Perfluorooctane Sulfonamide (PF	FOSA)	754-91-6	-	mg/kg	1	ND
N-methylperfluoro-1-octanesulfor	namide(MeFOSA)	31506-32-8	-	mg/kg	1	ND
N-ethylperfluoro-1-octanesulfona	mide (EtFOSA)	4151-50-2	-	mg/kg	1	ND
2-(N-methylperfluoro-1-octanesu -ethanol(MeFOSE)	lfonamido)	24448-09-7	-	mg/kg	1	ND
2-(N-ethylperfluoro-1-octanesulfo -ethanol(EtFOSE)	namido)	1691-99-2	-	mg/kg	1	ŅD
Perfluorooctane Sulfonyl fluoride	(POSF)*	307-35-7	-	mg/kg	1	ND
Perfluorooctanoic acid (PFOA) ar	nd its salts+	335-67-1	0.025	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFO derivatives	S) and its	-	1000	mg/kg	-	ND
1H,1H,2H,2H-Perfluorodecanesu FTS)	lfonic acid (8:2	39108-34-4	-	mg/kg	0.2	ND
Methyl perfluorooctanoate (Me-P	FOA)	376-27-2	-	mg/kg	0.2	ND
Ethyl perfluorooctanoate (Et-PFO	A)	3108-24-5	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluoro-1-decand	I (8:2 FTOH)	678-39-7	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl acry	late (8:2 FTA)	27905-45-9	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl met FTMA)	hacrylate (8:2	1996-88-9	-	mg/kg	0.2	ND
Perfluoro-1-iodooctane (PFOI)		507-63-1	-	mg/kg	0.2	ND
PFOA related substances		-	1.0	mg/kg	-	ND
Comment						PASS
<u>Test Item(s)</u>		CAS NO.	<u>Limit</u>	<u>Unit</u>	MDL	<u>006</u>
Perfluorooctane sulfonates (PFOS	•	1763-23-1	-	mg/kg	1	ND
Perfluorooctane Sulfonamide (PF		754-91-6	-	mg/kg	1	ND
N-methylperfluoro-1-octanesulfon	. ,	31506-32-8	-	mg/kg	1	ND
N-ethylperfluoro-1-octanesulfonar	nide (EtFOSA)	4151-50-2	-	mg/kg	1	ND



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<u>Test Item(s)</u> 2-(N-methylperfluoro-1-octanesulfon -ethanol(MeFOSE)	amido)	<u>CAS NO.</u> 24448-09-7	<u>Limit</u> -	<u>Unit</u> mg/kg	MDL 1	<u>006</u> ND
2-(N-ethylperfluoro-1-octanesulfona -ethanol(EtFOSE)	mido)	1691-99-2	-	mg/kg	1	ND
Perfluorooctane Sulfonyl fluoride(PC	SF)*	307-35-7	-	mg/kg	1	ND
Perfluorooctanoic acid (PFOA) and i	ts salts+	335-67-1	0.025	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) a derivatives	and its	-	1000	mg/kg	-	ND
1H,1H,2H,2H-Perfluorodecanesulfor FTS)	nic acid (8:2	39108-34-4	-	mg/kg	0.2	ND
Methyl perfluorooctanoate (Me-PFO	۹)	376-27-2	-	mg/kg	0.2	ND
Ethyl perfluorooctanoate (Et-PFOA)		3108-24-5	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8	:2 FTOH)	678-39-7	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl acrylate	e (8:2 FTA)	27905-45-9	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl methac FTMA)	rylate (8:2	1996-88-9	-	mg/kg	0.2	ND
Perfluoro-1-iodooctane (PFOI)		507-63-1	-	mg/kg	0.2	ND
PFOA related substances		-	1.0	mg/kg	-	ND
Comment						PASS
<u>Test Item(s)</u>		<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>007</u>
Perfluorooctane sulfonates (PFOS) ^		1763-23-1	-	mg/kg	1	ND
Perfluorooctane Sulfonamide (PFOS	A)	754-91-6	-	mg/kg	1	ND
N-methylperfluoro-1-octanesulfonam	ide(MeFOSA)	31506-32-8	-	mg/kg	1	ND
N-ethylperfluoro-1-octanesulfonamid	. ,	4151-50-2	-	mg/kg	1	ND
2-(N-methylperfluoro-1-octanesulfona -ethanol(MeFOSE)	amido)	24448-09-7	-	mg/kg	1	ND
2-(N-ethylperfluoro-1-octanesulfonam -ethanol(EtFOSE)	nido)	1691-99-2	-	mg/kg	1	ND
Perfluorooctane Sulfonyl fluoride(PO	SF)*	307-35-7	-	mg/kg	1	ND
Perfluorooctanoic acid (PFOA) and its	s salts+	335-67-1	0.025	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) a derivatives	nd its	-	1000	mg/kg	-	ND
1H,1H,2H,2H-Perfluorodecanesulfoni FTS)	c acid (8:2	39108-34-4	-	mg/kg	0.2	ND
Methyl perfluorooctanoate (Me-PFOA	.)	376-27-2	-	mg/kg	0.2	ND
Ethyl perfluorooctanoate (Et-PFOA)		3108-24-5	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:	2 FTOH)	678-39-7	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl acrylate	(8:2 FTA)	27905-45-9	-	mg/kg	0.2	ND



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<u>Test Item(s)</u>		CAS NO.	Limit	Unit	MDL	<u>007</u>
1H,1H,2H,2H-Perfluorodecyl metha FTMA)	crylate (8:2	1996-88-9	-	mg/kg	0.2	ND
Perfluoro-1-iodooctane (PFOI)		507-63-1	-	mg/kg	0.2	ND
PFOA related substances		-	1.0	mg/kg	-	ND
Comment						PASS
<u>Test Item(s)</u>		CAS NO.	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>
Perfluorooctane sulfonates (PFOS)	٨	1763-23-1	-	mg/kg	1	ND
Perfluorooctane Sulfonamide (PFO	SA)	754-91-6	-	mg/kg	1	ND
N-methylperfluoro-1-octanesulfonar	nide(MeFOSA)	31506-32-8	-	mg/kg	1	ND
N-ethylperfluoro-1-octanesulfonami	de (EtFOSA)	4151-50-2	-	mg/kg	1	ND
2-(N-methylperfluoro-1-octanesulfor -ethanol(MeFOSE)	namido)	24448-09-7	-	mg/kg	1	ND
2-(N-ethylperfluoro-1-octanesulfona -ethanol(EtFOSE)	mido)	1691-99-2	-	mg/kg	1	ND
Perfluorooctane Sulfonyl fluoride(PC	DSF)*	307-35-7	-	mg/kg	1	ND
Perfluorooctanoic acid (PFOA) and	its salts+	335-67-1	0.025	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) derivatives	and its	-	1000	mg/kg	-	ND
1H,1H,2H,2H-Perfluorodecanesulfor FTS)	nic acid (8:2	39108-34-4	-	mg/kg	0.2	ND
Methyl perfluorooctanoate (Me-PFO	A)	376-27-2	-	mg/kg	0.2	ND
Ethyl perfluorooctanoate (Et-PFOA)		3108-24-5	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8	3:2 FTOH)	678-39-7	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl acrylat	ə (8:2 FTA)	27905-45-9	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl methac FTMA)	crylate (8:2	1996-88-9	-	mg/kg	0.2	ND
Perfluoro-1-iodooctane (PFOI)		507-63-1	-	mg/kg	0.2	ND
PFOA related substances		-	1.0	mg/kg	-	ND
Comment						PASS
<u>Test Item(s)</u>		CAS NO.	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>
Perfluorooctane sulfonates (PFOS) /	<b>、</b>	1763-23-1	-	mg/kg	1	ND
Perfluorooctane Sulfonamide (PFOS	A)	754-91-6	-	mg/kg	1	ND
N-methylperfluoro-1-octanesulfonam	ide(MeFOSA)	31506-32-8	-	mg/kg	1	ND
N-ethylperfluoro-1-octanesulfonamid	e (EtFOSA)	4151-50-2	-	mg/kg	1	ND
2-(N-methylperfluoro-1-octanesulfon- -ethanol(MeFOSE)	amido)	24448-09-7	-	mg/kg	1	ND



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<u>Test Item(s)</u>		CAS NO.	Limit	<u>Unit</u>	MDL	<u>009</u>
2-(N-ethylperfluoro-1-octanesulfona -ethanol(EtFOSE)	mido)	1691-99-2	-	mg/kg	1	ND
Perfluorooctane Sulfonyl fluoride(PC	OSF)*	307-35-7	-	mg/kg	1	ND
Perfluorooctanoic acid (PFOA) and	its salts+	335-67-1	0.025	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) derivatives	and its	-	1000	mg/kg	-	ND
1H,1H,2H,2H-Perfluorodecanesulfor FTS)	nic acid (8:2	39108-34-4	-	mg/kg	0.2	ND
Methyl perfluorooctanoate (Me-PFO	A)	376-27-2	-	mg/kg	0.2	ND
Ethyl perfluorooctanoate (Et-PFOA)		3108-24-5	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8	3:2 FTOH)	678-39-7	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl acrylate	e (8:2 FTA)	27905-45-9	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl methac FTMA)	crylate (8:2	1996-88-9	-	mg/kg	0.2	ND
Perfluoro-1-iodooctane (PFOI)		507-63-1	-	mg/kg	0.2	ND
PFOA related substances		-	1.0	mg/kg	-	ND
Comment						PASS
<u>Test Item(s)</u>		CAS NO.	<u>Limit</u>	<u>Unit</u>	MDL	<u>010</u>
Perfluorooctane sulfonates (PFOS) /		1763-23-1	-	mg/kg	1	ND
Perfluorooctane Sulfonamide (PFOS	A)	754-91-6	-	mg/kg	1	ND
N-methylperfluoro-1-octanesulfonam	ide(MeFOSA)	31506-32-8	-	mg/kg	1	ND
N-ethylperfluoro-1-octanesulfonamid	e (EtFOSA)	4151-50-2	-	mg/kg	1	ND
2-(N-methylperfluoro-1-octanesulfona -ethanol(MeFOSE)	amido)	24448-09-7	-	mg/kg	1	ND
2-(N-ethylperfluoro-1-octanesulfonan -ethanol(EtFOSE)	nido)	1691-99-2	-	mg/kg	1	ND
Perfluorooctane Sulfonyl fluoride(PO	SF)*	307-35-7	-	mg/kg	1	ND
Perfluorooctanoic acid (PFOA) and it	s salts+	335-67-1	0.025	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) a derivatives	ind its	-	1000	mg/kg	-	ND
1H,1H,2H,2H-Perfluorodecanesulfon FTS)	ic acid (8:2	39108-34-4	-	mg/kg	0.2	ND
Methyl perfluorooctanoate (Me-PFOA	<b>A</b> )	376-27-2	-	mg/kg	0.2	ND
Ethyl perfluorooctanoate (Et-PFOA)		3108-24-5	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8	2 FTOH)	678-39-7	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl acrylate	(8:2 FTA)	27905-45-9	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl methaci FTMA)	rylate (8:2	1996-88-9	-	mg/kg	0.2	ND

FTMA)



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<u>Test Item(s)</u>		CAS NO.	<u>Limit</u>	<u>Unit</u>	MDL	<u>010</u>	
Perfluoro-1-iodooctane (PFOI)		507-63-1	-	mg/kg	0.2	ND	
PFOA related substances		-	1.0	mg/kg	-	ND	
Comment						PASS	
<u>Test Item(s)</u>		<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>011</u>	
Perfluorooctane sulfonates (PFOS	6) ^	1763-23-1	-	mg/kg	1	ND	
Perfluorooctane Sulfonamide (PF	OSA)	754-91-6	-	mg/kg	1	ND	
N-methylperfluoro-1-octanesulfon	amide(MeFOSA)	31506-32-8	-	mg/kg	1	ND	
N-ethylperfluoro-1-octanesulfonar	nide (EtFOSA)	4151-50-2	-	mg/kg	1	ND	
2-(N-methylperfluoro-1-octanesult -ethanol(MeFOSE)	onamido)	24448-09-7	-	mg/kg	1	ND	
2-(N-ethylperfluoro-1-octanesulfor -ethanol(EtFOSE)	namido)	1691-99-2	-	mg/kg	1	ND	
Perfluorooctane Sulfonyl fluoride(	POSF)*	307-35-7	-	mg/kg	1	ND	
Perfluorooctanoic acid (PFOA) an	d its salts+	335-67-1	0.025	mg/kg	0.010	ND	
Perfluorooctane sulfonates (PFOS derivatives	6) and its	-	1000	mg/kg	-	ND	
1H,1H,2H,2H-Perfluorodecanesul FTS)	fonic acid (8:2	39108-34-4	-	mg/kg	0.2	ND	
Methyl perfluorooctanoate (Me-PF	OA)	376-27-2	-	mg/kg	0.2	ND	
Ethyl perfluorooctanoate (Et-PFO)	٩)	3108-24-5	-	mg/kg	0.2	ND	
1H,1H,2H,2H-Perfluoro-1-decanol	(8:2 FTOH)	678-39-7	-	mg/kg	0.2	ND	
1H,1H,2H,2H-Perfluorodecyl acryl	ate (8:2 FTA)	27905-45-9	-	mg/kg	0.2	ND	
1H,1H,2H,2H-Perfluorodecyl meth FTMA)	acrylate (8:2	1996-88-9	-	mg/kg	0.2	ND	
Perfluoro-1-iodooctane (PFOI)		507-63-1	-	mg/kg	0.2	ND	
PFOA related substances		-	1.0	mg/kg	-	ND	
Comment						PASS	
<u>Test Item(s)</u>		<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>012</u>	
Perfluorooctane sulfonates (PFOS	) ^	1763-23-1	-	mg/kg	1	ND	
Perfluorooctane Sulfonamide (PFC	DSA)	754-91-6	-	mg/kg	1	ND	
N-methylperfluoro-1-octanesulfona	mide(MeFOSA)	31506-32-8	-	mg/kg	1	ND	
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)		4151-50-2	-	mg/kg	1	ND	
2-(N-methylperfluoro-1-octanesulfo -ethanol(MeFOSE)	onamido)	24448-09-7	-	mg/kg	1	ND	
2-(N-ethylperfluoro-1-octanesulfon -ethanol(EtFOSE)	amido)	1691-99-2	-	mg/kg	1	ND	



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<u>Test Item(s)</u>		CAS NO.	<u>Limit</u>	Unit	MDL	012
Perfluorooctane Sulfonyl fluoride(POSF)*		307-35-7	-	mg/kg	1	ND
Perfluorooctanoic acid (PFOA) and its salts+		335-67-1	0.025	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives		-	1000	mg/kg	-	ND
1H,1H,2H,2H-Perfluorodecanesulfor FTS)	ic acid (8:2	39108-34-4	-	mg/kg	0.2	ND
Methyl perfluorooctanoate (Me-PFOA)		376-27-2	-	mg/kg	0.2	ND
Ethyl perfluorooctanoate (Et-PFOA)		3108-24-5	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8	:2 FTOH)	678-39-7	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)		27905-45-9	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl methac FTMA)	rylate (8:2	1996-88-9	-	mg/kg	0.2	ND
Perfluoro-1-iodooctane (PFOI)		507-63-1	-	mg/kg	0.2	ND
PFOA related substances		-	1.0	mg/kg	-	ND
Comment						PASS
<u>Test Item(s)</u>		CAS NO.	<u>Limit</u>	<u>Unit</u>	MDL	<u>013</u>
Perfluorooctane sulfonates (PFOS) ^		1763-23-1	-	mg/kg	1	ND
Perfluorooctane Sulfonamide (PFOS	A)	754-91-6	-	mg/kg	1	ND
N-methylperfluoro-1-octanesulfonam	de(MeFOSA)	31506-32-8	-	mg/kg	1	ND
N-ethylperfluoro-1-octanesulfonamide	e (EtFOSA)	4151-50-2	-	mg/kg	1	ND
2-(N-methylperfluoro-1-octanesulfona -ethanol(MeFOSE)	amido)	24448-09-7	-	mg/kg	1	ND
2-(N-ethylperfluoro-1-octanesulfonam -ethanol(EtFOSE)	nido)	1691-99-2	-	mg/kg	1	ND
Perfluorooctane Sulfonyl fluoride(PO	SF)*	307-35-7	-	mg/kg	1	ND
Perfluorooctanoic acid (PFOA) and its	s salts+	335-67-1	0.025	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) a derivatives	nd its	-	1000	mg/kg	-	ND
1H,1H,2H,2H-Perfluorodecanesulfoni FTS)	c acid (8:2	39108-34-4	-	mg/kg	0.2	ND
Methyl perfluorooctanoate (Me-PFOA	.)	376-27-2	-	mg/kg	0.2	ND
Ethyl perfluorooctanoate (Et-PFOA)		3108-24-5	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:	2 FTOH)	678-39-7	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)		27905-45-9	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl methacr FTMA)	ylate (8:2	1996-88-9	-	mg/kg	0.2	ND
Perfluoro-1-iodooctane (PFOI)		507-63-1	-	mg/kg	0.2	ND



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Test Report	No. CANEC2203944651		Date: 29 Mar 2022		Page 27 of 44	
<u>Test Item(s)</u> PFOA related substances <b>Comment</b>		<u>CAS NO.</u> -	<u>Limit</u> 1.0	<u>Unit</u> mg/kg	<u>MDL</u> -	013 ND <b>PASS</b>
<u>Test Item(s)</u>		CAS NO.	Limit	Unit	MDL	<u>014</u>
Perfluorooctane sulfonates (PFOS) ^		1763-23-1	-	mg/kg	1	ND
Perfluorooctane Sulfonamide (PFOSA)		754-91-6	-	mg/kg	1	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)		31506-32-8	-	mg/kg	1	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)		4151-50-2	-	mg/kg	1	ND
2-(N-methylperfluoro-1-octanesulfona -ethanol(MeFOSE)	amido)	24448-09-7	-	mg/kg	1	ND
2-(N-ethylperfluoro-1-octanesulfonam -ethanol(EtFOSE)	iido)	1691-99-2	-	mg/kg	1	ND
Perfluorooctane Sulfonyl fluoride(POSF)*		307-35-7	-	mg/kg	1	ND
Perfluorooctanoic acid (PFOA) and its salts+		335-67-1	0.025	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) a derivatives	nd its	-	1000	mg/kg	-	ND
1H,1H,2H,2H-Perfluorodecanesulfoni FTS)	c acid (8:2	39108-34-4	-	mg/kg	0.2	ND
Methyl perfluorooctanoate (Me-PFOA	)	376-27-2	-	mg/kg	0.2	ND
Ethyl perfluorooctanoate (Et-PFOA)		3108-24-5	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:	2 FTOH)	678-39-7	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl acrylate	(8:2 FTA)	27905-45-9	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl methacr FTMA)	ylate (8:2	1996-88-9	-	mg/kg	0.2	ND
Perfluoro-1-iodooctane (PFOI)		507-63-1	-	mg/kg	0.2	ND
PFOA related substances		-	1.0	mg/kg	-	ND
Comment						PASS
Notes :						

(1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

(3) \* The test result is based on the calculation of selected marker(s) and to the worst-case scenario.



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## Remark:

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## Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

 These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).





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Phthalates Testing Flow Chart





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Halogen Testing Flow Chart





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PAHs Testing Flow Chart





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PFOA / PFOS Testing Flow Chart





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Elementary Testing Flow Chart





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**Red phosphorus Testing Flow Chart** 





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Persistent, Bioaccumulative, and Toxic (PBT) Chemicals Testing Flow Chart





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Sample photo:





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