

Test Report Page: 1 of 14 No.: CC/2020/40124H Date: 2021/02/22

SHINGTECH ELECTRONICS CO., LTD.

NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

The following sample(s) was/were submitted and identified by/on behalf of the applicant as:

Sample Submitted By : SHINGTECH ELECTRONICS CO., LTD.

Sample Description **PCB**

Style/Item No. SVHC-FOR REACH

Sample Receiving Date : 2020/04/10

Testing Period 2020/04/10 to 2020/04/17 and 2021/01/20 to 2021/02/22

: 211 Substances of Very High Concern (SVHC) screening in addition of item(s) by specific **Test Requested**

> client's request. SVHC candidate list based on the publication by European Chemicals Agency (ECHA) on 2021 Jan 19, regarding Regulation (EC) No 1907/2006 concerning the

REACH.

Test Result(s) Please refer to next page(s).

: According to the ruling of the Court of Justice of the European Union on the definition of an **Summary** article under REACH, and the specified scope as well as analytical technique, the test results

of the selected component article are ≤ 0.1% (w/w) in the submitted sample(s).

* This report is added testing and combined with CC/2020/40124 *

Troy Chang / Manager - Tec Signed for and behalf of SĞS TAIWAN LTD. Chemical Laboratory - Taipei

PIN CODE: 0B76ABDB



Test Report Page: 2 of 14 No.: CC/2020/40124H Date: 2021/02/22

SHINGTECH ELECTRONICS CO., LTD.

NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

Test Sample: **GREEN PCB**

SGS In-House method-RSTS-EE-SVHC-007. Analysis was performed by ICP-OES, UV-VIS, **Test Method:**

GC/MS, LC/MS, GC/FPD, LC/MS/DAD, UPLC-MSMS.

Test Result(s)

1. 4,4" - Diaminodiphenylmethane (MDA) (CAS No.: 101-77-9) 1. 4,4" - Diaminodiphenylmethane (MDA) (CAS No.: 101-77-9) 2. 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 81-15-2) 3. Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8) 4. Anthracene (CAS No.: 120-12-7) 5. BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) 6. Bis(tributyltin)oxide (TBTO)*** (CAS No.: 56-35-9) 7. Diarsenic pentaoxide**** (CAS No.: 1303-28-2) 7. Diarsenic trioxide**** (CAS No.: 1303-28-3) 9. DBP (Dibutyl phthalate) (CAS No.: 84-74-2) 10. Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (a- 0.05	No.	Substance Name	RL	Concentration
2. 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 81-15-2) 3. Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8) 4. Anthracene (CAS No.: 120-12-7) 5. BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) 5. Bis (tributyltin)oxide (TBTO)**** (CAS No.: 56-35-9) 7. Diarsenic pentaoxide**** (CAS No.: 1327-53-3) 8. Diarsenic trioxide**** (CAS No.: 1327-53-3) 9. DBP (Dibutyl phthalate) (CAS No.: 84-74-2) 10. Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) 11. Lead hydrogen arsenate**** (CAS No.: 7789-12-0; 10588-01-9(*)) 12. Sodium dichromate**** (CAS No.: 15606-95-8) 13. Triethyl arsenate**** (CAS No.: 15606-95-8) 14. DEHP (Bis (2-ethyl(hexyl)) phthalate)) (CAS No.: 117-81-7) 15. 2,4-Dinitrotoluene (CAS No.: 121-14-2) 16. Anthracene oil (CAS No.: 121-14-2) 17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 18. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-2) (**) 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 10. Disp (Di-isobutyl phthalate) (CAS No.: 90640-82-7) (**) 11. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)**** (CAS No.: 12656-85-8) 14. Disp (Di-isobutyl phthalate) (CAS No.: 90640-82-7) (**) 15. Q-Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 16. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 18. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 19. Anthracene oil, anthracene low (CAS No.: 90640-82-7) (**) 19. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)**** (CAS No.: 12656-85-8) 10. d.	NO.	Substance Name	(%)	(%)
3. Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8) 4. Anthracene (CAS No.: 120-12-7) 5. BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) 6. Bis(tributyltin)oxide (TBTO)*** (CAS No.: 56-35-9) 7. Diarsenic pentaoxide*** (CAS No.: 1303-28-2) 7. Diarsenic pentaoxide*** (CAS No.: 1303-28-2) 8. Diarsenic trioxide*** (CAS No.: 1327-53-3) 9. DBP (Dibutyl phthalate) (CAS No.: 34-74-2) 10. Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) 11. Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (※1) 12. Sodium dichromate*** (CAS No.: 15606-95-8) 13. Triethyl arsenate*** (CAS No.: 15606-95-8) 14. DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7) 15. 2,4-Dinitrotoluene (CAS No.: 121-14-2) 16. Anthracene oil (CAS No.: 90640-80-5) (**) 17. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-17-4) (**) 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 10. DIBP (Di-isobutyl phthalate) (CAS No.: 90640-82-7) (**) 10. DIBP (Di-isobutyl phthalate) (CAS No.: 91995-17-4) (**) 10. O.05 10. d. 11. DIBP (Di-isobutyl phthalate) (CAS No.: 91995-17-4) (**) 12. Lead chromate *** (CAS No.: 7758-97-6) (※5) 13. Lead sulfochromate wellow (CAS No.: 91908-17-4) (**) 14. DEBP (Di-isobutyl phthalate) (CAS No.: 91995-17-4) (**) 15. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) 10. d. 11. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) 14. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) 15. n.d.	1.	4,4' - Diaminodiphenylmethane (MDA) (CAS No.: 101-77-9)	0.05	n.d.
4. Anthracene (CAS No.: 120-12-7) 5. BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) 6. Bis(tributyltin)oxide (TBTO)*** (CAS No.: 56-35-9) 7. Diarsenic pentaoxide*** (CAS No.: 1303-28-2) 8. Diarsenic trioxide*** (CAS No.: 1303-28-2) 9. DBP (Dibutyl phthalate) (CAS No.: 84-74-2) 10. Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) 11. Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (※1) 12. Sodium dichromate*** (CAS No.: 7789-12-0; 10588-01-9(*)) 13. Triethyl arsenate*** (CAS No.: 15606-95-8) 14. DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7) 15. 2,4-Dinitrotoluene (CAS No.: 90640-80-5) (**) 16. Anthracene oil (CAS No.: 90640-80-5) (**) 17. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 18. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 21. DIBP (Di-isobutyl phthalate) (CAS No.: 90640-82-7) (**) 22. Lead chromate*** (CAS No.: 7758-97-6) (※5) 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) 25. n.d.	2.	5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 81-15-2)	0.05	n.d.
5. BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) 0.05 n.d. 6. Bis(tributyltin)oxide (TBTO)*** (CAS No.: 56-35-9) - n.d. 7. Diarsenic pentaoxide*** (CAS No.: 1303-28-2) - n.d. 8. Diarsenic trioxide*** (CAS No.: 1327-53-3) - n.d. 9. DBP (Dibutyl phthalate) (CAS No.: 84-74-2) 0.05 n.d. 10. Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) n.d. 11. Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (※1) - n.d. 12. Sodium dichromate*** (CAS No.: 7789-12-0; 10588-01-9(*)) - n.d. 13. Triethyl arsenate*** (CAS No.: 15606-95-8) - n.d. 14. DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7) 0.05 n.d. 15. 2,4-Dinitrotoluene (CAS No.: 90640-80-5) (**) 0.05 n.d. 16. Anthracene oil (CAS No.: 90640-80-5) (**) 0.05 n.d. 17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 0.05 n.d. 19. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-17-4) (**) 0.05 n.d. 20. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 0.05 n.d.	3.	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	0.05	n.d.
6. Bis(tributyltin)oxide (TBTO)*** (CAS No.: 56-35-9) 7. Diarsenic pentaoxide*** (CAS No.: 1303-28-2) 7. Diarsenic pentaoxide*** (CAS No.: 1303-28-2) 8. Diarsenic trioxide*** (CAS No.: 1327-53-3) 9. DBP (Dibutyl phthalate) (CAS No.: 84-74-2) 10. Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) 11. Lead hydrogen arsenate**** (CAS No.: 7784-40-9) (※1) 12. Sodium dichromate*** (CAS No.: 7789-12-0; 10588-01-9(*)) 13. Triethyl arsenate*** (CAS No.: 15606-95-8) 14. DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7) 15. 2,4-Dinitrotoluene (CAS No.: 121-14-2) 16. Anthracene oil (CAS No.: 90640-80-5) (**) 17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 20. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 21. DIBP (Di-isobutyl phthalate) (CAS No.: 90640-82-7) (**) 22. Lead chromate *** (CAS No.: 7758-97-6) (※5) 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 1344-37-2) (※5) 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) 25. n.d.	4.	Anthracene (CAS No.: 120-12-7)	0.05	n.d.
7. Diarsenic pentaoxide*** (CAS No.: 1303-28-2) 8. Diarsenic trioxide*** (CAS No.: 1327-53-3) 9. DBP (Dibutyl phthalate) (CAS No.: 84-74-2) 10. Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) 11. Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (※1) 12. Sodium dichromate*** (CAS No.: 15606-95-8) 13. Triethyl arsenate*** (CAS No.: 15606-95-8) 14. DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7) 15. 2,4-Dinitrotoluene (CAS No.: 121-14-2) 16. Anthracene oil (CAS No.: 90640-80-5) (**) 17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 20. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 21. DIBP (Di-isobutyl phthalate) (CAS No.: 90640-82-7) (**) 22. Lead chromate*** (CAS No.: 7758-97-6) (※5) 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) - n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) - n.d.	5.	BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	0.05	n.d.
8. Diarsenic trioxide*** (CAS No.: 1327-53-3) - n.d. 9. DBP (Dibutyl phthalate) (CAS No.: 84-74-2) 0.05 n.d. 10. Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) - n.d. 11. Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (※1) - n.d. 12. Sodium dichromate*** (CAS No.: 7789-12-0; 10588-01-9(*)) - n.d. 13. Triethyl arsenate*** (CAS No.: 15606-95-8) - n.d. 14. DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7) 0.05 n.d. 15. 2,4-Dinitrotoluene (CAS No.: 90640-80-5) (**) 0.05 n.d. 16. Anthracene oil (CAS No.: 90640-80-5) (**) 0.05 n.d. 17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 0.05 n.d. 18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 0.05 n.d. 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 0.05 n.d. 20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 0.05 n.d. 21. DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) 0.05 n.d. 22. Lead chromate*** (CAS No.: 7758-97-6) (※5) - n.d. 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) (**) n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (**5) - n.d.			-	n.d.
9. DBP (Dibutyl phthalate) (CAS No.: 84-74-2) 10. Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) 11. Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (※1) 12. Sodium dichromate*** (CAS No.: 7789-12-0; 10588-01-9(*)) 13. Triethyl arsenate*** (CAS No.: 15606-95-8) 14. DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7) 15. 2,4-Dinitrotoluene (CAS No.: 121-14-2) 16. Anthracene oil (CAS No.: 90640-80-5) (**) 17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 21. DIBP (Di-isobutyl phthalate) (CAS No.: 90640-82-7) (**) 22. Lead chromate*** (CAS No.: 7758-97-6) (※5) 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 1344-37-2) (※5) 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) 25. Displace (CAS No.: 12656-85-8) (N.C.) (CAS No.: 1344-37-2) (X5) 26. Displace (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (X5) 27. Displace (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (X5) 28. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (X5)	7.	Diarsenic pentaoxide*** (CAS No.: 1303-28-2)	-	n.d.
10. Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) 11. Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (※1) 12. Sodium dichromate*** (CAS No.: 7789-12-0; 10588-01-9(*)) 13. Triethyl arsenate*** (CAS No.: 15606-95-8) 14. DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7) 15. 2,4-Dinitrotoluene (CAS No.: 121-14-2) 16. Anthracene oil (CAS No.: 90640-80-5) (**) 17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 21. DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) 22. Lead chromate*** (CAS No.: 7758-97-6) (※5) 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 1344-37-2) (※5) 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) - n.d.	8.	Diarsenic trioxide*** (CAS No.: 1327-53-3)	-	n.d.
HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) 11. Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (※1) 12. Sodium dichromate*** (CAS No.: 7789-12-0; 10588-01-9(*)) 13. Triethyl arsenate*** (CAS No.: 15606-95-8) 14. DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7) 15. 2,4-Dinitrotoluene (CAS No.: 121-14-2) 16. Anthracene oil (CAS No.: 90640-80-5) (**) 17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 19. Anthracene oil, anthracene paste, distr. Lights (CAS No.: 91995-17-4) (**) 20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 21. DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) 22. Lead chromate*** (CAS No.: 7758-97-6) (※5) 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 1344-37-2) (※5) 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) - n.d.	9.	DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	0.05	n.d.
12. Sodium dichromate*** (CAS No.: 7789-12-0; 10588-01-9(*)) - n.d. 13. Triethyl arsenate*** (CAS No.: 15606-95-8) - n.d. 14. DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7) 0.05 n.d. 15. 2,4-Dinitrotoluene (CAS No.: 121-14-2) 0.05 n.d. 16. Anthracene oil (CAS No.: 90640-80-5) (**) 0.05 n.d. 17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 0.05 n.d. 18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 0.05 n.d. 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 0.05 n.d. 20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 0.05 n.d. 21. DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) 0.05 n.d. 22. Lead chromate*** (CAS No.: 7758-97-6) (※5) - n.d. 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) - n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) - n.d.	10.	HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7,	0.05	n.d.
13. Triethyl arsenate*** (CAS No.: 15606-95-8) - n.d. 14. DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7) 0.05 n.d. 15. 2,4-Dinitrotoluene (CAS No.: 121-14-2) 0.05 n.d. 16. Anthracene oil (CAS No.: 90640-80-5) (**) 0.05 n.d. 17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 0.05 n.d. 18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 0.05 n.d. 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 0.05 n.d. 20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 0.05 n.d. 21. DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) 0.05 n.d. 22. Lead chromate*** (CAS No.: 7758-97-6) (%5) - n.d. 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) - n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (%5) - n.d.	11.	Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (X1)	-	n.d.
14. DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7) 0.05 n.d. 15. 2,4-Dinitrotoluene (CAS No.: 121-14-2) 0.05 n.d. 16. Anthracene oil (CAS No.: 90640-80-5) (**) 0.05 n.d. 17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 0.05 n.d. 18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 0.05 n.d. 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 0.05 n.d. 20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 0.05 n.d. 21. DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) 0.05 n.d. 22. Lead chromate*** (CAS No.: 7758-97-6) (%5) - n.d. 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) - n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (%5) - n.d.	12.	Sodium dichromate*** (CAS No.: 7789-12-0; 10588-01-9(*))	-	n.d.
15. 2,4-Dinitrotoluene (CAS No.: 121-14-2) 0.05 n.d. 16. Anthracene oil (CAS No.: 90640-80-5) (**) 0.05 n.d. 17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 0.05 n.d. 18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 0.05 n.d. 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 0.05 n.d. 20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 0.05 n.d. 21. DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) 0.05 n.d. 22. Lead chromate*** (CAS No.: 7758-97-6) (※5) - n.d. 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) - n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) - n.d.	13.	Triethyl arsenate*** (CAS No.: 15606-95-8)	-	n.d.
16. Anthracene oil (CAS No.: 90640-80-5) (**) 0.05 n.d. 17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 0.05 n.d. 18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 0.05 n.d. 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 0.05 n.d. 20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 0.05 n.d. 21. DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) 0.05 n.d. 22. Lead chromate*** (CAS No.: 7758-97-6) (%5) - n.d. 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) - n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (%5) - n.d.	14.	DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No.: 117-81-7)	0.05	n.d.
17. Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**) 0.05 n.d. 18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 0.05 n.d. 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 0.05 n.d. 20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 0.05 n.d. 21. DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) 0.05 n.d. 22. Lead chromate*** (CAS No.: 7758-97-6) (%5) - n.d. 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) - n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (%5) - n.d.	15.	2,4-Dinitrotoluene (CAS No.: 121-14-2)	0.05	n.d.
18. Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**) 0.05 n.d. 19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 0.05 n.d. 20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 0.05 n.d. 21. DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) 0.05 n.d. 22. Lead chromate*** (CAS No.: 7758-97-6) (※5) - n.d. 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) - n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) - n.d.	16.	Anthracene oil (CAS No.: 90640-80-5) (**)	0.05	n.d.
19. Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**) 0.05 n.d. 20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 0.05 n.d. 21. DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) 0.05 n.d. 22. Lead chromate*** (CAS No.: 7758-97-6) (※5) - n.d. 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) - n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) - n.d.	17.	Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**)	0.05	n.d.
20. Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**) 0.05 n.d. 21. DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) 0.05 n.d. 22. Lead chromate*** (CAS No.: 7758-97-6) (※5) - n.d. 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) - n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) - n.d.	18.	Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**)	0.05	n.d.
21. DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) 0.05 n.d. 22. Lead chromate*** (CAS No.: 7758-97-6) (※5) - n.d. 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) - n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) - n.d.	19.	Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**)	0.05	n.d.
22. Lead chromate*** (CAS No.: 7758-97-6) (※5) - n.d. 23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) - n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) - n.d.		, , ,	0.05	n.d.
23. Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*** (CAS No.: 12656-85-8) - n.d. 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (※5) - n.d.	21.	DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	0.05	n.d.
(%5) 24. Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (%5) - n.d.	22.	Lead chromate*** (CAS No.: 7758-97-6) (※5)	-	n.d.
	23.	, , , , , , , , , , , , , , , , , , , ,	-	n.d.
25. Pitch, coal tar, high-temp. (CAS No.: 65996-93-2) (**) 0.05 n.d.	24.	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** (CAS No.: 1344-37-2) (%5)	-	n.d.
	25.	Pitch, coal tar, high-temp. (CAS No.: 65996-93-2) (**)	0.05	n.d.



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No.	Substance Name	RL (%)	Concentration (%)
26.	Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	0.05	n.d.
27.	Acrylamide (CAS No.: 79-06-1)	0.05	n.d.
28.	Ammonium dichromate*** (CAS No.: 7789-09-5)	-	n.d.
29.	Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	-	n.d.
30.	Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	-	n.d.
31.	Potassium chromate*** (CAS No.: 7789-00-6)	-	n.d.
32.	Potassium dichromate*** (CAS No.: 7778-50-9)	-	n.d.
33.	Sodium chromate*** (CAS No.: 7775-11-3)	-	n.d.
34.	Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267-73-1) (* 2)	-	n.d.
35.	Trichloroethylene (CAS No.: 79-01-6)	0.05	n.d.
36.	2-Ethoxyethanol (CAS No.: 110-80-5)	0.05	n.d.
37.	2-Methoxyethanol (CAS No.: 109-86-4)	0.05	n.d.
38.	Acids generated from chromium trioxide and their oligomers: Chromic acid*** (CAS No.: 7738-94-5)	-	n.d.
	Acids generated from chromium trioxide and their oligomers: Dichromic acid*** (CAS No.: 13530-68-2)	-	n.d.
	Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid (* 1)	-	n.d.
39.	Chromium trioxide*** (CAS No.: 1333-82-0)	-	n.d.
40.	Cobalt(II) carbonate*** (CAS No.: 513-79-1)	-	n.d.
41.	Cobalt(II) diacetate*** (CAS No.: 71-48-7)	-	n.d.
42.	Cobalt(II) dinitrate*** (CAS No.: 10141-05-6)	-	n.d.
43.	Cobalt(II) sulphate*** (CAS No.: 10124-43-3)	-	n.d.
44.	1,2,3-trichloropropane (CAS No.: 96-18-4)	0.05	n.d.
45.	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)	0.05	n.d.
46.	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4)	0.05	n.d.
47.	1-methyl-2-pyrrolidone (CAS No.: 872-50-4)	0.05	n.d.
48.	2-ethoxyethyl acetate (CAS No.: 111-15-9)	0.05	n.d.
	Hydrazine (CAS No.: 7803-57-8; 302-01-2)	0.05	n.d.
50.	Strontium chromate*** (CAS No.: 7789-06-2)	-	n.d.
51.	Cobalt dichloride (CAS No.: 7646-79-9)	0.005	n.d.



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No.	Substance Name	RL (%)	Concentration (%)
52.	1,2-Dichloroethane (CAS No.: 107-06-2)	0.05	n.d.
53.	2,2'-dichloro- 4,4'-methylenedianiline (MOCA) (CAS No.: 101-14-4)	0.05	n.d.
54.	2-Methoxyaniline; o-Anisidine (CAS No.: 90-04-0)	0.05	n.d.
55.	4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol) (CAS No.: 140-66-9)	0.05	n.d.
56.	Aluminosilicate, Refractory Ceramic Fibres [oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges]	0.05	n.d.
57.	Arsenic acid*** (CAS No.: 7778-39-4)	-	n.d.
58.	Bis(2-methoxyethyl) ether (CAS No.: 111-96-6)	0.05	n.d.
59.	Bis(2-methoxyethyl) phthalate (CAS No.: 117-82-8)	0.05	n.d.
60.	Calcium arsenate*** (CAS No.: 7778-44-1)	-	n.d.
61.	Dichromium tris (chromate)*** (CAS No.: 24613-89-6)	-	n.d.
62.	Formaldehyde, oligomeric reaction products with aniline (technical MDA) (CAS No.: 25214-70-4)	0.05	n.d.
63.	Lead diazide, Lead azide*** (CAS No.: 13424-46-9)	-	n.d.
64.	Lead dipicrate*** (CAS No.: 6477-64-1)	-	n.d.
65.	5. Lead styphnate*** (CAS No.: 15245-44-0)		n.d.
66.	N,N-dimethylacetamide (DMAC) (CAS No.: 127-19-5)	0.05	n.d.
67.	Pentazinc chromate octahydroxide*** (CAS No.: 49663-84-5)	-	n.d.
68.	B. Phenolphthalein (CAS No.: 77-09-8)		n.d.
69.	Potassium hydroxyoctaoxodizincatedi- chromate*** (CAS No.: 11103-86-9)		n.d.
70.	. Trilead diarsenate*** (CAS No.: 3687-31-8) (※1)		n.d.
71.	Zirconia Aluminosilicate, Refractory Ceramic Fibres (oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges)	0.05	n.d.
72.	2. [4-[[4-anilino-1-naphthyl] [4-(dimethylamino) phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) (CAS No.: 2580-56-5) [with ≥ 0.1% of Michler's ketone or Michler's base]		n.d.
73.	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) (CAS No.: 548-62-9) [with ≥ 0.1% of Michler's ketone or Michler's base]	0.05	n.d.
	1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme) (CAS No.: 112-49-2)	0.05	n.d.
75.	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) (CAS No.: 110-71-4)	0.05	n.d.
76.	TGIC (1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6 (1H,3H,5H)-trione) (CAS No.: 2451-62-9)	0.05	n.d.



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No.	Substance Name	RL (%)	Concentration (%)
77.	β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6- (1H,3H,5H)-trione) (CAS No.: 59653-74-6) (※3)	0.05	n.d.
78.	4,4'-bis (dimethylamino)-4"-(methylamino) trityl alcohol (CAS No.: 561-41-1) [with ≥ 0.1% of Michler's ketone or Michler's base]	0.05	n.d.
79.	4,4'-bis (dimethylamino) benzophenone (Michler's ketone) (CAS No.: 90-94-8)	0.05	n.d.
	Diboron trioxide*** (CAS No.: 1303-86-2)	-	n.d.
	Formamide (CAS No.: 75-12-7)	0.05	n.d.
	Lead(II) bis(methanesulfonate)*** (CAS No.: 17570-76-2)	-	n.d.
	N,N,N',N'-tetramethyl- 4,4'-methylenedianiline (Michler's base) (CAS No.: 101-61-1)	0.05	n.d.
84.	α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) (CAS No.: 6786-83-0) [with ≥ 0.1% of Michler's ketone or Michler's base]	0.05	n.d.
85.	[Phthalato(2-)] dioxotrilead*** (CAS No.: 69011-06-9)	-	n.d.
86.	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)	0.05	n.d.
87.	1,2-Diethoxyethane (CAS No.: 629-14-1)	0.05	n.d.
88.	1-bromopropane (CAS No.: 106-94-5)	0.05	n.d.
89.	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine (CAS No.: 143860-04-2)	0.05	n.d.
90.	4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	0.05	n.d.
91.	4,4'-methylenedi-o-toluidine (CAS No.: 838-88-0)	0.05	n.d.
92.	4,4'-oxydianiline and its salts (CAS No.: 101-80-4)	0.05	n.d.
93.	4-Aminoazobenzene (CAS No.: 60-09-3)	0.05	n.d.
94.	4-methyl-m-phenylenediamine (2,4-toluenediamine) (CAS No.: 95-80-7)	0.05	n.d.
95.	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]	0.05	n.d.
96.	6-methoxy-m-toluidine (p-cresidine) (CAS No.: 120-71-8)	0.05	n.d.
	Acetic acid, lead salt, basic*** (CAS No.: 51404-69-4)	-	n.d.
98.	Biphenyl-4-ylamine (CAS No.: 92-67-1)	0.05	n.d.
99.	Bis(pentabromophenyl) ether (DecaBDE) (CAS No.: 1163-19-5)	0.05	n.d.
100.	Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2- dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) (CAS No.: 85-42-7, 13149-00-3, 14166-21-3)	0.05	n.d.



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No.	Substance Name	RL (%)	Concentration (%)
101.	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (CAS No.: 123-77-3)	0.05	n.d.
102.	Dibutyltin dichloride (DBTC)*** (CAS No.: 683-18-1)	-	n.d.
103.	Diethyl sulphate (CAS No.: 64-67-5)	0.05	n.d.
104.	Diisopentylphthalate (CAS No.: 605-50-5)	0.05	n.d.
105.	Dimethyl sulphate (CAS No.: 77-78-1)	0.05	n.d.
106.	Dinoseb (CAS No.: 88-85-7)	0.05	n.d.
107.	Dioxobis(stearato) trilead*** (CAS No.: 12578-12-0)	-	n.d.
108.	Fatty acids, C16-18, lead salts*** (CAS No.: 91031-62-8)	-	n.d.
109.	Furan (CAS No.: 110-00-9)	0.05	n.d.
110.	Henicosafluoroundecanoic acid (CAS No.: 2058-94-8)	0.05	n.d.
111.	Heptacosafluorotetradecanoic acid (CAS No.: 376-06-7)	0.05	n.d.
112.	Hexahydromethylphathalic anhydride (CAS No.: 25550-51-0) Hexahydro-4-methylphathalic anhydride (CAS No.: 19438-60-9) Hexahydro-1-methylphathalic anhydride (CAS No.: 48122-14-1) Hexahydro-3-methylphathalic anhydride (CAS No.: 57110-29-9)	0.05	n.d.
113.	Lead bis(tetrafluoroborate)*** (CAS No.: 13814-96-5)	-	n.d.
	Lead cyanamidate*** (CAS No.: 20837-86-9)	-	n.d.
115.	Lead dinitrate*** (CAS No.: 10099-74-8)	-	n.d.
	Lead oxide (lead monoxide)*** (CAS No.: 1317-36-8)	-	n.d.
117.	Lead oxide sulfate*** (CAS No.: 12036-76-9)	-	n.d.
118.	Lead titanium trioxide*** (CAS No.: 12060-00-3)	-	n.d.
119.	Lead Titanium Zirconium Oxide*** (CAS No.: 12626-81-2)	-	n.d.
120.	Methoxy acetic acid (CAS No.: 625-45-6)	0.05	n.d.
121.	Propylene oxide; 1,2-epoxypropane; methyloxirane (CAS No.: 75-56-9)	0.05	n.d.
122.	N,N-dimethylformamide; dimethyl formamide (CAS No.: 68-12-2)	0.05	n.d.
123.	N-methylacetamide (CAS No.: 79-16-3)	0.05	n.d.
124.	N-pentyl-isopentylphtalate (CAS No.: 776297-69-9)	0.05	n.d.
125.	o-aminoazotoluene (CAS No.: 97-56-3)	0.05	n.d.
126.	Lead tetroxide (orange lead)*** (CAS No.: 1314-41-6)	-	n.d.
	o-Toluidine; 2-Aminotoluene (CAS No.: 95-53-4)	0.05	n.d.
128.	Pentacosafluorotridecanoic acid (CAS No.: 72629-94-8)	0.05	n.d.
129.	Pentalead tetraoxide sulphate*** (CAS No.: 12065-90-6)	-	n.d.
130.	Pyrochlore, antimony lead yellow*** (CAS No.: 8012-00-8)	-	n.d.
131.	Silicic acid, barium salt, lead-doped (¾4) (CAS No.: 68784-75-8)	0.05	n.d.



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No.	Substance Name	RL (%)	Concentration (%)
132.	Silicic acid, lead salt*** (CAS No.: 11120-22-2)	-	n.d.
133.	Sulfurous acid, lead salt, dibasic*** (CAS No.: 62229-08-7)	-	n.d.
134.	Tetraethyllead*** (CAS No.: 78-00-2)	-	n.d.
135.	Tetralead trioxide sulphate*** (CAS No.: 12202-17-4)	-	n.d.
136.	Tricosafluorododecanoic acid (CAS No.: 307-55-1)	0.05	n.d.
137.	Trilead bis(carbonate) dihydroxide (basic lead carbonate)*** (CAS No.: 1319-46-6)	-	n.d.
138.	Trilead dioxide phosphonate*** (CAS No.: 12141-20-7)	-	n.d.
	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 of the individual isomers and/or combinations thereof]	0.05	n.d.
	Ammoniumpentadecafluorooctanoate (APFO)*** (CAS No.: 3825-26-1)	-	n.d.
	Cadmium (Cd) (CAS No.: 7440-43-9)	0.005	n.d.
142.	Cadmium oxide*** (CAS No.: 1306-19-0)	-	n.d.
	Dipentyl phthalate (CAS No.: 131-18-0)	0.05	n.d.
144.	Pentadecafluorooctanoic acid (PFOA) (CAS No.: 335-67-1)	0.05	n.d.
145.	Cadmium sulphide*** (CAS No.: 1306-23-6)	-	n.d.
146.	Dihexyl phthalate (CAS No.: 84-75-3)	0.05	n.d.
147.	7. Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) (CAS No.: 573-58-0)		n.d.
148.	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) (CAS No.: 1937-37-7)	0.05	n.d.
149.	Imidazolidine-2-thione; 2-imidazoline-2-thiol (CAS No.: 96-45-7)	0.05	n.d.
150.	Lead di(acetate)*** (CAS No.: 301-04-2)	-	n.d.
151.	Trixylyl phosphate (CAS No.: 25155-23-1)	0.05	n.d.
152.	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (CAS No.: 68515-50-4)	0.05	n.d.
153.	Cadmium chloride*** (CAS No.: 10108-64-2)	-	n.d.
154.	Sodium perborate; perboric acid, sodium salt***		n.d.
155.	5. Sodium peroxometaborate*** (CAS No.: 7632-04-4)		n.d.
156.	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) (CAS No.: 25973-55-1)	0.05	n.d.
157.	. 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (CAS No.: 3846-71-7)		n.d.
158.	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)*** (CAS No.: 15571-58-1)	-	n.d.
159.	Cadmium fluoride*** (CAS No.: 7790-79-6)	-	n.d.



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No.	Substance Name	RL (%)	Concentration (%)
160.	Cadmium sulphate*** (CAS No.: 10124-36-4; 31119-53-6)	-	n.d.
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)***	-	n.d.
162.	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (CAS No.: 68515-51-5; 68648-93-1)	0.05	n.d.
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 isomers of [1] and [2] or any combination thereof]	0.05	n.d.
164.	1,3-propanesultone (CAS No.: 1120-71-4)	0.05	n.d.
165.	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) (CAS No.: 3864-99-1)	0.05	n.d.
166.	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) (CAS No.: 36437-37-3)	0.05	n.d.
167.	Nitrobenzene (CAS No.: 98-95-3)	0.05	n.d.
168.	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts (CAS No.: 375-95-1; 21049-39-8; 4149-60-4)	0.05	n.d.
169.	Benzo[def]chrysene (Benzo[a]pyrene) (CAS No.: 50-32-8)	0.05	n.d.
170.	4,4'- isopropylidenediphenol (Bisphenol A) (CAS No.: 80-05-7)	0.05	n.d.
171.	4-Heptylphenol, branched and linear (4-HPbl) [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]	0.05	n.d.
172.	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts (CAS No.: 3108-42-7, 335-76-2, 3830-45-3)	0.05	n.d.
173.	p-(1,1- dimethylpropyl) phenol (PTAP) (CAS No.: 80-46-6)	0.05	n.d.
174.	Perfluorohexane-1-sulphonic acid and its salts (PFHxS) (CAS No.: 355-46-4)	0.05	n.d.
175.	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"TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	0.05	n.d.
176.	Benz[a]anthracene (CAS No.: 56-55-3)	0.05	n.d.
177.	Cadmium nitrate*** (CAS No.: 10325-94-7)	-	n.d.
178.	Cadmium carbonate*** (CAS No.: 513-78-0)	-	n.d.
179.	Cadmium hydroxide*** (CAS No.: 21041-95-2)	-	n.d.
180.	Chrysene (CAS No.: 218-01-9)	0.05	n.d.
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] (※7)	-	n.d.



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No.	Substance Name	RL (%)	Concentration (%)
182.	Dicyclohexyl phthalate (DCHP) (CAS No.: 84-61-7)	0.05	n.d.
183.	Benzene-1,2,4- tricarboxylic acid 1,2- anhydride (trimellitic anhydride) (CAS No.: 552-30-7)	0.05	n.d.
184.	Benzo[ghi]perylene (CAS No.: 191-24-2)	0.05	n.d.
185.	Octamethylcyclotetrasiloxane (D4) (CAS No.: 556-67-2)	0.05	n.d.
186.	Decamethylcyclopentasiloxane (D5) (CAS No.: 541-02-6)	0.05	n.d.
187.	Dodecamethylcyclohexasiloxane (D6) (CAS No.: 540-97-6)	0.05	n.d.
188.	Disodium octaborate*** (CAS No.: 12008-41-2)	-	n.d.
189.	Ethylenediamine (CAS No.: 107-15-3)	0.05	n.d.
190.	Lead (Pb) (CAS No.: 7439-92-1) (●)	0.005	n.d.
191.	Terphenyl hydrogenated (CAS No.: 61788-32-7)	0.05	n.d.
192.	2,2-bis(4'-hydroxyphenyl)-4-methylpentane (CAS No.: 6807-17-6)	0.05	n.d.
193.	Benzo[k]fluoranthene (CAS No.: 207-08-9)	0.05	n.d.
194.	Fluoranthene (CAS No.: 206-44-0)	0.05	n.d.
195.	Phenanthrene (CAS No.: 85-01-8)	0.05	n.d.
196.	Pyrene (CAS No.: 129-00-0)	0.05	n.d.
197.	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) (CAS No.: 15087-24-8)	0.05	n.d.
198.	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	0.05	n.d.
199.	2-methoxyethyl acetate (CAS No.: 110-49-6)	0.05	n.d.
200.	4-tert-butylphenol (CAS No.: 98-54-4)	0.05	n.d.
201.	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4- nonylphenol, branched and linear (4-NP)	0.05	n.d.
202.	Diisohexyl phthalate (CAS No.: 71850-09-4)	0.05	n.d.
203.	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone (CAS No.: 119313-12-1)	0.05	n.d.
204.	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (CAS No.: 71868-10-5)	0.05	n.d.
205.	Perfluorobutane sulfonic acid (PFBS) and its salts	0.05	n.d.
206.	1-vinylimidazole (CAS No.: 1072-63-5)	0.05	n.d.
207.	2-methylimidazole (CAS No.: 693-98-1)	0.05	n.d.
208.	Butyl 4-hydroxybenzoate (CAS No.: 94-26-8)	0.05	n.d.
209.	Dibutylbis(pentane-2,4-dionato-O,O')tin*** (CAS No.: 22673-19-4)	-	n.d.
210.	Bis(2-(2-methoxyethoxy)ethyl) ether (CAS No.: 143-24-8)	0.05	n.d.



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No.	Substance Name	RL (%)	Concentration (%)
	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***	-	n.d.

Additional screening by client's request outside the scope of SVHC as published by ECHA on Jan 19, 2021:

No.	Substance Name	RL (%)	Concentration (%)
1.	Resorcinol (CAS No.: 108-46-3)	0.05	n.d.

Remark:

- 1. Candidate List of SVHC (2021/01/19) http://echa.europa.eu/web/guest/candidate-list-table
- 2. In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
- 3. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) 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.
- 4. If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:
 - (I) a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
 - (II) mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or (III) a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits
- 5. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.



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Note:

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. RL = Reporting Limit
- 3. n.d.= not detected = below Reporting Limit
- 4. (*1): Oligomers of chromic acid and dichromic acid: since the oligomers are made of the unknown amount of chromic acid or dichromic acid that results in no fixed molecular weight, therefore the monomer of chromic acid or dichromic acid is relevant and considered.
- 5. (*2): Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
- 6. F Parameter Conversion Table: http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
- 7. Classification: http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
- 8. " " = Not Regulated
- 9. (*): conc. of Sodium dichromate dihydrate (CAS No.: 7789-12-0) = conc. of sodium dichromate × 1.1374
- 10. (**): The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.
- 11. ***: The substance was calculated by the test results of MonooctylTin, Dioctyl Tin, Tributyl Tin, Dibutyl Tin, PFOA or element (Ex. Arsenic, Lead, Cr(VI), Boron, Cobalt, Barium, Cadmium respectively).

The test result is given as:

Substance Name	RL (%)	Concentration (%)
Tributyl Tin (TBT)	0.05	n.d.
Arsenic (As) (%2)	0.005	n.d.
Lead (Pb)	0.005	n.d.
Hexavalent Chromium Cr(VI)	0.005	n.d.
Boron (B) (X2)	0.005	n.d.
Cobalt (Co)	0.005	n.d.
Dibutyl Tin (DBT)	0.05	n.d.
Barium (Ba)	0.005	0.238
Dioctyl Tin (DOT)	0.0231	n.d.
MonooctylTin (MOT)	0.0140	n.d.
Cadmium (Cd)	0.005	n.d.

- 12. (%1): Regarding the compound containing arsenic and lead, lead and arsenic are tested and respectively used for the calculation of the independent concentration of the compound containing arsenic and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.
- 13. (X2): The extracted soluble Boron / Arsenic are detected by ICP-OES.



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- 14. (%3): TGIC is a mixture and also contains β -TGIC. According to the ECHA's technical dossier the ratio of β -TGIC to TGIC is around 1 to 10. Therefore β-TGIC is issued based on the above-mentioned ratio.
- 15. (¾4): Only if both qualitative results of lead and silicon are positive, the test result of the compound will be calculated based on the concentration of barium.
- 16. (35): Regarding the compound containing Cr(VI) and lead, lead and Cr(VI) are tested and respectively used for the calculation of the independent concentration of the compound containing Cr(VI) and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.
- 17. (※7): RP-HP can't be identified directly and test result can't be calculated based on specific element(s) or compound. RP-HP is identified as SVHC because of 4-HPbl, therefore 4-HPbl is analysed instead of RP-HP.
- 18. (•): Since lead has a wide application, it is unlikely to determine if the detected lead comes from the lead ion, lead element or/ and lead compounds. Therefore the detected total lead is used on behalf of lead.
- 19. The statement of compliance conformity is based on comparison of testing results and limits.

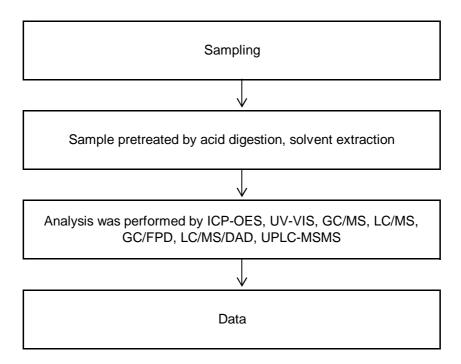


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Analytical flow chart of SVHC





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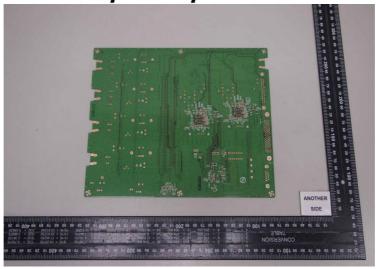
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* The tested sample / part is marked by an arrow if it's shown on the photo. *

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** End of Report **