TEST REPORT

Applicant: NAKAI INDUSTRIAL CO., LTD.
KYOTO-OMIYA BLDG 3F
394, OSAKACHO
KARASUMA-DORI GOJO-SAGARU
SHIMOGYO-KU,
KYOTO 600-8177, JAPAN
Attn: MR. TOSHIKAZU SAITO

Number: HKGH0284695003

Date: Mar 18, 2022

Sample and Information provided by customer :
Item Name : **HOT STAMPING FOIL**
Item No. : **A23, A23(N)**
Quantity : 1 piece
Country of Origin : Japan

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For and on behalf of :
Intertek Testing Services HK Ltd.

Cindy I.K. Chan
Vice President

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Conclusion:
The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

	Requirement	Result
(1)	RoHS Directive (2011/65/EU) - Chemical test	Pass
(2)	EN 71-3:2019 and Directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021 - Migration of certain elements	Pass
(3)	EN 71-3 : 2019 + A1 : 2021 - Migration of certain elements	Pass
(4)	REACH Regulation (EC) no. 1907/2006, Annex XVII Item 61 & Amendment No. 412/2012 - Dimethylfumarate content requirement	Pass
(5)	REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 Annex XVII Item 50 - Polycyclic aromatic hydrocarbons content	Pass
(6)	94/62/EC and its amendment (packaging waste) - Toxic elements test	Pass
(7)	AS/NZS ISO 8124-3:2003 (Australian Trade Practice Act 1974 with Consumer Protection Notice no. 1, 2009 - Consumer Product Safety Standard for Lead and certain elements in children's toys.) - Toxic elements test ∞	Pass
	Australian Customs Notice no. 2007/46 - amendments to the Customs (Prohibited Imports) Regulations 1956 Schedule 2 Item 2 - Toxic elements test ∞	Pass
	AS/NZS 8124-3:2012/Amdt 1:2016 - Toxic elements test ∞	Pass
(8)	REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52, amendment no. 552/2009 & 2018/2005 - Phthalates content	Pass
	Spin Master's requirement - Phthalates content	Pass
(9)	ISO 14184-1 :2011 - Formaldehyde content	See details enclosed

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Requirement	Result
(10)Perfluorooctane Sulfonates (PFOS) and Perfluorooctanoic Acid (PFOA) Content	See details enclosed
(11)EU REACH Regulation (EC) No 1907/2006 Article 33(1) - Obligation to provide information of safe use (see REACH requirement in report for details)	Pass
EU Waste Framework Directive (WFD) 2008/98/EC and amendment (EU) 2018/851 Article 9 1. (i) – SCIP Notification (see WFD requirement in report for details)	Pass

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Decision Rule(s):
When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. https://intertekhk.grd.by/decision-rule-doc..
If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.
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(1) RoHS Chemical Test

(A) Result :

Polymer material:

	Result
	(1)
Cadmium (Cd) Content (mg/kg)	ND
Lead (Pb) Content (mg/kg)	ND
Mercury (Hg) Content (mg/kg)	ND
Chromium (VI) Content (mg/kg) (For Non-metal)	ND
Chromium (VI) Result (By boiling water extraction on metal) (μg/cm²)	--
Monobromobiphenyl (MonoBB) (mg/kg)	ND
Dibromobiphenyl (DiBB) (mg/kg)	ND
Tribromobiphenyl (TriBB) (mg/kg)	ND
Tetrabromobiphenyl (TetraBB) (mg/kg)	ND
Pentabromobiphenyl (PentaBB) (mg/kg)	ND
Hexabromobiphenyl (HexaBB) (mg/kg)	ND
Heptabromobiphenyl (HeptaBB) (mg/kg)	ND
Octabromobiphenyl (OctaBB) (mg/kg)	ND
Nonabromobiphenyl (NonaBB) (mg/kg)	ND
Decabromobiphenyl (DecaBB) (mg/kg)	ND
Sum of Polybrominated Biphenyls (PBBs) (mg/kg)	ND
Monobromodiphenyl Ether (MonoBDE) (mg/kg)	ND
Dibromodiphenyl Ether (DiBDE) (mg/kg)	ND
Tribromodiphenyl Ether (TriBDE) (mg/kg)	ND
Tetrabromodiphenyl Ether (TetraBDE) (mg/kg)	ND
Pentabromodiphenyl Ether (PentaBDE) (mg/kg)	ND
Hexabromodiphenyl Ether (HexaBDE) (mg/kg)	ND
Heptabromodiphenyl Ether (HeptaBDE) (mg/kg)	ND
Octabromodiphenyl Ether (OctaBDE) (mg/kg)	ND
Nonabromodiphenyl Ether (NonaBDE) (mg/kg)	ND
Decabromodiphenyl Ether (DecaBDE) (mg/kg)	ND
Sum of Polybrominated Diphenyl Ethers (PBDEs) (mg/kg)	ND

mg/kg = milligram per kilogram

ND = Not detected

NA = Not applicable

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(B) RoHS requirements

Restricted substances	Limits
Cadmium (Cd)	0.01% (100 ppm)
Lead (Pb)	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Chromium (VI) (Cr^{6+})	0.1% (1000 ppm)
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)

The above limits were quoted from Annex II of 2011/65/EU.

(C) Test Methods

Testing Item	Testing Method	Reporting Limit
Cadmium (Cd) Content	With reference to IEC 62321-5 edition 1.0 : 2013, by acid digestion and determined by ICP-OES	10 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 edition 1.0 : 2013, by acid digestion and determined by ICP-OES	10 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4 edition 1.0 : 2013+AMD1:2017, by acid digestion and determined by ICP-OES	10 mg/kg
Chromium (VI) (Cr^{6+}) Content (For Non-Metal)	With reference to IEC 62321-7-2 : 2017, by alkaline digestion and determined by UV-VIS spectrophotometer	5 mg/kg
Chromium (VI) (Cr^{6+}) Content (For Leather)	With reference to ISO 17075-1 : 2017, by phosphate butter extraction and determined by UV-VIS spectrophotometer	1 mg/kg
Chromium (VI) (Cr^{6+}) Content (For Metal)	With reference to IEC 62321-7-1 : 2015, by boiling water extraction and determined by UV-VIS spectrophotometer	0.1 $\mu g/cm^2$
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 : 2015, by solvent extraction and determined by GC/MS.	20 mg/kg

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The explanation of Chromium (VI) (Cr^{6+}) analysis result (For Metal)

Colorimetric result	Qualitative result	Explanation
< 0.10 μg/cm^2	Negative	The result of sample is negative for Cr (VI). The sample coating is considered a non-Cr(VI) based coating.
≥ 0.10 μg/cm^2 and ≤ 0.13 μg/cm^2	Inconclusive	The result of sample is considered to be inconclusive. If addition samples are available, recommend to add trials and get the average result for the final determination.
> 0.13 μg/cm^2	Positive	The result of sample is positive for Cr(VI). The sample coating is considered to contain Cr(VI).A result expresses as positive, while not an actual value, which indicates a visual observation was used.

Tested Component:

(1) Transparent plastic sheet with silver color coating (foil sheet).

Date sample received : Mar 08, 2022
Test Period : Mar 08, 2022 to Mar 15, 2022

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(2) 19 Toxic Element Migration Test

Test Method : EN 71-3:2019. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

	Result (mg/kg)		Limit (mg/kg)
	(1)	(2)	
Soluble Aluminium (Al)	<300	<300	70000 / 28130^
Soluble Antimony (Sb)	<10	<10	560
Soluble Arsenic (As)	<10	<10	47
Soluble Barium (Ba)	<10	<10	18750
Soluble Boron (B)	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	130
Soluble Copper (Cu)	<10	<10	7700
Soluble Lead (Pb)	<10	<10	23
Soluble Manganese (Mn)	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	94
Soluble Nickel (Ni)	<10	<10	930
Soluble Selenium (Se)	<10	<10	460
Soluble Strontium (Sr)	<100	<100	56000
Soluble Tin (Sn)	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI) .

^ : The new aluminium migration limit [2250mg/kg for Category (I), 560mg/kg for category (II) and 28130mg/kg for Category (III)] was quoted from directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021.

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Tested Components:

(1) Silver color coating on plastic sheet (foil sheet).
(2) Transparent plastic sheet excluding silver color coating (foil sheet).

Date sample received : Mar 08, 2022
Test Period : Mar 08, 2022 to Mar 15, 2022

(3) 19 Toxic Element Migration Test

Test Method : EN 71-3 : 2019 + A1 : 2021. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

	Result (mg/kg)		Limit (mg/kg)
	(1)	(2)	
Soluble Aluminium (Al)	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	560
Soluble Arsenic (As)	<10	<10	47
Soluble Barium (Ba)	<10	<10	18750
Soluble Boron (B)	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	130
Soluble Copper (Cu)	<10	<10	7700
Soluble Lead (Pb)	<10	<10	23
Soluble Manganese (Mn)	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	94
Soluble Nickel (Ni)	<10	<10	930
Soluble Selenium (Se)	<10	<10	460
Soluble Strontium (Sr)	<100	<100	56000
Soluble Tin (Sn)	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	46000

mg/kg = milligram per kilogram

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++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI) .

Tested Components:

(1) Silver color coating on plastic sheet (foil sheet).
(2) Transparent plastic sheet excluding silver color coating (foil sheet).

Date sample received : Mar 08, 2022
Test Period : Mar 08, 2022 to Mar 15, 2022

(4) Dimethylfumarate Content

Test Method : ISO/TS 16186:2012 with Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Tested Component	Result in ppm	Limit in ppm
(1)	<0.05	0.1

Detection Limit = 0.05ppm

ppm = parts per million = mg/kg

Tested Component:

(1) Transparent plastic sheet with silver color coating (foil sheet).

Date sample received : Mar 08, 2022
Test Period : Mar 08, 2022 to Mar 17, 2022

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(5) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test Method : The document AfPS GS 2019:01 PAK issued by the Federal Institute for Occupational Safety and Health, solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Compound	Result (ppm)		Limit (ppm)
	(1)	(2)	
Benzo(a)pyrene	<0.20	<0.20	1
Benzo(e)pyrene	<0.20	<0.20	1
Benzo(a)anthracene	<0.20	<0.20	1
Chrysene	<0.20	<0.20	1
Benzo(b)fluoranthene	<0.20	<0.20	1
Benzo(j)fluoranthene	<0.20	<0.20	1
Benzo(k)fluoranthene	<0.20	<0.20	1
Dibenzo(a,h)anthracene	<0.20	<0.20	1

The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 for polycyclic aromatic hydrocarbons (PAH).

ppm = parts per million = mg/kg

Tested Components:

(1) Silver color coating on plastic sheet (foil sheet).
(2) Transparent plastic sheet excluding silver color coating (foil sheet).

Date sample received : Mar 08, 2022
Test Period : Mar 08, 2022 to Mar 15, 2022

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(6) Toxic Elements Analysis

Test Method : 94/62/EC and its amendment on packaging and packaging waste, acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

	Result (ppm)	Limit (ppm)
	(1)	
Total Lead (Pb)	<5	--
Total Cadmium (Cd)	<5	--
Total Mercury (Hg)	<5	--
Chromium VI (Cr (VI))	<5	--
Sum of Lead, Cadmium, Mercury and Chromium Cr (VI)	<20	100

ppm = parts per million = mg/kg

Tested Component:

(1) Transparent plastic sheet with silver color coating (foil sheet) (packaging).

Date sample received : Mar 08, 2022
Test Period : Mar 08, 2022 to Mar 15, 2022

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(7) Toxic Elements Analysis

Test Method : Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma Optical Emission Spectrometry.

Materials other than modelling clay:

	Result (mg/kg)		Limit (mg/kg)
	(1)	(2)	
Soluble Barium (Ba)	<5	<5	1000
Soluble Lead (Pb)	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	75
Soluble Antimony (Sb)	<5	<5	60
Soluble Selenium (Se)	<5	<5	500
Soluble Chromium (Cr)	<5	<5	60
Soluble Mercury (Hg)	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	25

mg/kg = milligram per kilogram

Tested Components:

(1) Silver color coating on plastic sheet (foil sheet).
(2) Transparent plastic sheet excluding silver color coating (foil sheet).

Decision Rule:

∞ : Materials are deems to comply with the requirements if the adjusted analytical result is less than or equal to the limit of this table.

The analytical result of materials shall be adjusted by subtracting the analytical correction in below table to obtain an adjusted analytical of result.

Elements	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical Correction(%)	60	60	30	30	30	30	50	60

Date sample received : Mar 08, 2022
Test Period : Mar 08, 2022 to Mar 15, 2022

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(8) Phthalate Content Test

Test Method : ISO 8124-6 : 2018 method A with internal standard calibration, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

(A) EEC regulated phthalates:

Compound	Result (%, w/w)		Limit (%, w/w)
	(1)	(2)	
Dibutyl phthalate (DBP)	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	--
Diisobutyl phthalate (DIBP)	<0.01	<0.01	--
Sum of DBP, DEHP, BBP & DIBP	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	<0.01	--
Sum of DINP, DnOP & DIDP	<0.01	<0.01	0.1

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(B) Other phthalates:

Compound	Result (%, w/w)		Limit (%, w/w)
	(1)	(2)	
Dimethyl phthalate (DMP)	<0.01	<0.01	0.05
Diethyl phthalate (DEP)	<0.01	<0.01	0.05
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	<0.01	0.05
Diisopentylphthalate (DIPP)	<0.01	<0.01	0.05
N-pentyl-isopentylphthalate (PIPP)	<0.01	<0.01	0.05
Dinonyl phthalate (DNP)	<0.01	<0.01	0.05
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	0.05
Di-propyl phthalate (DPRP)	<0.01	<0.01	0.05
Di-n-hexyl phthalate (DnHP) / (DHEXP)	<0.01	<0.01	0.05
Diisooctyl phthalate (DIOP)	<0.01	<0.01	0.05
Bis (2-methoxyethyl) phthalate (BMEP)	<0.01	<0.01	0.05
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	<0.01	<0.01	0.05
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	<0.01	<0.01	0.05
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	<0.01	<0.01	0.05
Di-C7-11-alkyl (branched and linear) phthalate (DHNUP)	<0.01	<0.01	0.05
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 (EC No. 201-559-5)	<0.01	<0.01	0.05
Dibenzyl phthalate (DBZP)	<0.01	<0.01	0.05
Diheptyl phthalate (DHEPP)	<0.01	<0.01	0.05
Diallyl phthalate (DAP)	<0.01	<0.01	0.05
Diundecyl phthalate (DUP)	<0.01	<0.01	0.05
Diisohexyl phthalate (DIHEXP)	<0.01	<0.01	0.05

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The above limit of EEC regulated phthalates was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006, amendment no. 552/2009 taking into account the (EU) regulation 2018/2005 modifying entry 51 for which the DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination with the first three phthalates which already exist in the entry 51, in a concentration equal to or greater than 0,1 % by weight of the plasticised material.

Tested Components:

(1) Silver color coating on plastic sheet (foil sheet).
(2) Transparent plastic sheet excluding silver color coating (foil sheet).

Date sample received : Mar 08, 2022
Test Period : Mar 08, 2022 to Mar 15, 2022

(9) Free Formaldehyde Content

Test Standard : ISO 14184-1:2011

Tested Component	Result in ppm
(1)	<5

ppm = parts per million = mg/kg

Sample received condition : Without any packaging

Tested Component:

(1) Transparent plastic sheet with silver color coating (foil sheet).

Date sample received : Mar 08, 2022
Test Period : Mar 08, 2022 to Mar 15, 2022

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(10) Perfluorooctane Sulfonates (PFOS) and Perfluorooctanoic Acid (PFOA) Content

Test method: CEN/TS 15968, by solvent extraction and followed by Liquid Chromatographic - Mass Spectrometric (LC-MS) analysis.

Compounds	Result in ppm
	(1)
Perfluoroctanesulfonic acid and its derivatives (PFOS)^	<1
Perfluoroctane acid (PFOA)	<1

Remark : ppm = parts per million = mg/kg
Detection limit = 1 ppm
^ = The reported value was calculated by summation of the values of Perfluoroctanesulfonic acid, Perfluoroctanesulfonamide, N-Methyl-Perfluoroctanesulfonamide, N-Ethyl-Perfluoroctanesulfonamide, N-Methyl-Perfluoroctanesulfonamidoethanol and N-Ethyl-Perfluoroctanesulfonamidoethanol.

Tested component :

(1) Transparent plastic sheet with silver color coating (foil sheet) .

Date sample received : Mar 08, 2022
Testing period : Mar 08, 2022 to Mar 16, 2022

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(11) SVHC Screening Test

Test Method : By a combination of X-Ray Fluorescence Spectroscopy, Inductively Coupled Argon Plasma Spectrometry, Gas Chromatographic - Mass Spectrometry and Liquid Chromatographic - Mass Spectrometry techniques.

Composite test result

Chemical substances	Group	Composite of tested components	Results^ %(w/w)
All SVHC substances	A	(1)	<0.1

Note:
When composites of tested components were found to contain SVHC exceeding 0.1% (w/w). One or more components may contain more than 0.1% (w/w) of the SVHC. Additional confirmation test is recommended to identify the SVHC content in individual component of concern to fulfill the SCIP notification.

Remark : SVHC = Substance of Very High Concern
^ Results were calculated with the minimum sample size of the component in the total composite and based on assumption of worst case.
Δ = Determination was based on elemental analysis.
+ = Determination was based on screening of Michler's ketone and Michler's base. As more than 0.1% of Michler's ketone and Michler's base was found in the sample, the sample may contain more than 0.1% of this SVHC compound.
++ = Determination was based on organotin confirmation

REACH requirement : As per Article 33(1) of the REACH Regulation (EC1907/2006), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1%(w/w). A product meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1%(w/w).

WFD requirement : As per Article 9 1. (i) of the Waste Framework Directive (WFD) 2008/98/EC and amendment (EU) 2018/851, companies supplying articles containing SVHC above 0.1%(w/w) shall submit information on these articles to the European Chemicals Agency as from 5 January 2021 (SCIP - **S**ubstances of **C**oncern **I**n articles as such or in complex objects (**P**roducts) Notification).

Tested Component :

(1) Transparent plastic sheet with silver color coating (foil sheet) .

Date sample received : Mar 08, 2022
Testing period : Mar 08, 2022 to Mar 17, 2022

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Appendix 1

Full list of SVHC
(Candidate list promulgated by European Chemicals Agency (ECHA) before and on Jan 17, 2022)

No.	Chemical Substances	EC No.	CAS No.
1	Anthracene	204-371-1	120-12-7
2	4,4'-Diaminodiphenylmethane	202-974-4	101-77-9
3	Dibutyl phthalate/ DBP	201-557-4	84-74-2
4	Cobalt dichloride Δ	231-589-4	7646-79-9
5	Diarsenic pentaoxide Δ	215-116-9	1303-28-2
6	Diarsenic trioxide Δ	215-481-4	1327-53-3
7	Sodium dichromate Δ	234-190-3	7789-12-0, 10588-01-9
8	5-Tert-butyl-2,4,6-trinitro-m-xylene/ Musk xylene	201-329-4	81-15-2
9	Bis (2-ethylhexyl) phthalate/ DEHP	204-211-0	117-81-7
10	Hexabromocyclododecane/ HBCDD and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	247-148-4 and 221-695-9	25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)
11	Short chain chlorinated paraffin (C10-C13)	287-476-5	85535-84-8
12	Bis (tributyltin) oxide Δ	200-268-0	56-35-9
13	Lead hydrogen arsenate Δ	232-064-2	7784-40-9
14	Triethyl arsenate Δ	427-700-2	15606-95-8
15	Benzyl butyl phthalate/ BBP	201-622-7	85-68-7
16	Anthracene oil	292-602-7	90640-80-5
17	Anthracene oil, anthracene paste, distn. Lights	295-278-5	91995-17-4
18	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
19	Anthracene oil, anthracene-low	292-604-8	90640-82-7
20	Anthracene oil, anthracene paste	292-603-2	90640-81-6
21	Diisobutyl phthalate/ DIBP	201-553-2	84-69-5
22	2,4-Dinitrotoluene	204-450-0	121-14-2
23	Lead chromate Δ	231-846-0	7758-97-6
24	Lead chromate molybdate sulfate red/ C.I. pigment red 104 Δ	235-759-9	12656-85-8
25	Lead sulfochromate yellow/ C.I. pigment yellow 34 Δ	215-693-7	1344-37-2
26	Coal tar pitch, high temperature	266-028-2	65996-93-2
27	Tris(2-chloroethyl)phosphate/ TCEP	204-118-5	115-96-8
28	Aluminosilicate, refractory ceramic fibres Δ	--	Index number 650-017-00-8
29	Zirconia aluminosilicate, refractory ceramic fibres Δ	--	Index number 650-017-00-8
30	Acrylamide	201-173-7	79-06-1

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No.	Chemical Substances	EC No.	CAS No.
31	Trichloroethylene	201-167-4	79-01-6
32	Boric acid Δ	233-139-2/ 234-343-4	10043-35-3, 11113-50-1
33	Disodium tetraborate, anhydrous Δ	215-540-4	1330-43-4, 1303-96-4, 12179-04-3
34	Tetraboron disodium heptaoxide, hydrate Δ	235-541-3	12267-73-1
35	Sodium chromate Δ	231-889-5	7775-11-3
36	Potassium chromate Δ	232-140-5	7789-00-6
37	Ammonium dichromate Δ	232-143-1	7789-09-5
38	Potassium dichromate Δ	231-906-6	7778-50-9
39	2-Ethoxyethanol	203-804-1	110-80-5
40	2-Methoxyethanol	203-713-7	109-86-4
41	Cobalt (II) diacetate Δ	200-755-8	71-48-7
42	Cobalt (II) carbonate Δ	208-169-4	513-79-1
43	Cobalt (II) dinitrate Δ	233-402-1	10141-05-6
44	Cobalt (II) sulphate Δ	233-334-2	10124-43-3
45	Chromium trioxide Δ	215-607-8	1333-82-0
46	Acids generated from chromium trioxide and their oligomers Δ : Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	 231-801-5 236-881-5	 7738-94-5 13530-68-2
47	1-Methyl-2-pyrrolidone	212-828-1	872-50-4
48	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich/ DIHP	276-158-1	71888-89-6
49	1,2-Benzeniedicarboxylic acid, di-C7-11-branched and linear alkyl esters/ DHNUP	271-084-6	68515-42-4
50	1,2,3-Trichloropropane	202-486-1	96-18-4
51	2-Ethoxyethyl acetate/ 2-EEA	203-839-2	111-15-9
52	Hydrazine	206-114-9	7803-57-8, 302-01-2
53	Strontium chromate Δ	232-142-6	7789-06-2
54	Lead styphnate Δ	239-290-0	15245-44-0
55	Lead diazide, Lead azide Δ	236-542-1	13424-46-9
56	Lead dipicrate Δ	229-335-2	6477-64-1
57	Phenolphthalein	201-004-7	77-09-8
58	2,2'-Dichloro-4,4'-methylenedianiline	202-918-9	101-14-4
59	N,N-dimethylacetamide	204-826-4	127-19-5
60	Trilead diarsenate Δ	222-979-5	3687-31-8
61	Calcium arsenate Δ	231-904-5	7778-44-1
62	Arsenic acid Δ	231-901-9	7778-39-4
63	Bis(2-methoxyethyl) ether	203-924-4	111-96-6

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No.	Chemical Substances	EC No.	CAS No.
64	1,2-Dichloroethane	203-458-1	107-06-2
65	4-(1,1,3,3-Tetramethylbutyl)phenol/ 4-tert-octyl phenol	205-426-2	140-66-9
66	2-Methoxyaniline/ o-Anisidine	201-963-1	90-04-0
67	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8
68	Formaldehyde, oligomeric reaction products with aniline/ technical MDA	500-036-1	25214-70-4
69	Pentazine chromate octahydroxide Δ	256-418-0	49663-84-5
70	Potassium hydroxyoctaoxodizincatedichromate Δ	234-329-8	11103-86-9
71	Dichromium tris(chromate) Δ	246-356-2	24613-89-6
72	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride/ C.I. Basic Violet 3 (with ≥0.1% of Michler's ketone or Michler's base)	208-953-6	548-62-9
73	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione/ β-TGIC	423-400-0	59653-74-6
74	1,2-bis(2-methoxyethoxy)ethane/ TEGDME;triglyme	203-977-3	112-49-2
75	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol (with ≥0.1% of Michler's ketone or Michler's base)	209-218-2	561-41-1
76	Lead(II) bis(methanesulfonate) Δ	401-750-5	17570-76-2
77	1,2-Dimethoxyethane/ Ethylene glycol dimethyl ether, EGDME	203-794-9	110-71-4
78	Diboron trioxide Δ	215-125-8	1303-86-2
79	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol/ C.I. Solvent Blue 4 (with ≥0.1% of Michler's ketone or Michler's base)	229-851-8	6786-83-0
80	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione/ TGIC	219-514-3	2451-62-9
81	4,4'-bis(dimethylamino)benzophenone/ Michler's ketone	202-027-5	90-94-8
82	N,N,N',N'-tetramethyl-4,4'-methylenedianiline/ Michler's base	202-959-2	101-61-1
83	Formamide	200-842-0	75-12-7
84	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride/ C.I. Basic Blue 26 (with ≥0.1% of Michler's ketone or Michler's base)	219-943-6	2580-56-5
85	Bis(pentabromophenyl) ether/ Decabromodiphenyl ether, DecaBDE	214-604-9	1163-19-5
86	Pentacosafluorotridecanoic acid	276-745-2	72629-94-8
87	Tricosafluorododecanoic acid	206-203-2	307-55-1
88	Henicosafluoroundecanoic acid	218-165-4	2058-94-8
89	Heptacosafluorotetradecanoic acid	206-803-4	376-06-7
90	Diazene-1,2-dicarboxamide/ C,C'-azodi(formamide)	204-650-8	123-77-3

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No.	Chemical Substances	EC No.	CAS No.
91	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3
92	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9
93	4-Nonylphenol, branched and linear	--	--
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	--	--
95	Methoxyacetic acid	210-894-6	625-45-6
96	N,N-dimethylformamide	200-679-5	68-12-2
97	Dibutyltin dichloride/ DBTC Δ	211-670-0	683-18-1
98	Lead monoxide/ Lead oxide Δ	215-267-0	1317-36-8
99	Orange lead/ Lead tetroxide Δ	215-235-6	1314-41-6
100	Lead bis(tetrafluoroborate) Δ	237-486-0	13814-96-5
101	Trilead bis(carbonate)dihydroxide Δ	215-290-6	1319-46-6
102	Lead titanium trioxide Δ	235-038-9	12060-00-3
103	Lead titanium zirconium oxide Δ	235-727-4	12626-81-2
104	Silicic acid, lead salt Δ	234-363-3	11120-22-2
105	Silicic acid, barium salt, lead-dopedΔ	272-271-5	68784-75-8
106	1-Bromopropane/ n-Propyl bromide	203-445-0	106-94-5
107	Methyloxirane / Propylene oxide	200-879-2	75-56-9
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0
109	Diisopentylphthalate/ DIPP	210-088-4	605-50-5
110	N-pentyl-isopentylphthalate	--	776297-69-9
111	1,2-Diethoxyethane	211-076-1	629-14-1
112	Acetic acid, lead salt, basic Δ	257-175-3	51404-69-4
113	Lead oxide sulfate Δ	234-853-7	12036-76-9
114	[Phthalato(2-)]dioxotrilead Δ	273-688-5	69011-06-9
115	Dioxobis(stearato)trilead Δ	235-702-8	12578-12-0
116	Fatty acids, C16-18, lead salts Δ	292-966-7	91031-62-8
117	Lead cynamidate Δ	244-073-9	20837-86-9
118	Lead dinitrate Δ	233-245-9	10099-74-8
119	Pentalead tetraoxide sulphate Δ	235-067-7	12065-90-6
120	Pyrochlore, antimony lead yellow Δ	232-382-1	8012-00-8
121	Sulfurous acid, lead salt, dibasic Δ	263-467-1	62229-08-7
122	Tetraethyllead Δ	201-075-4	78-00-2
123	Tetralead trioxide sulphate Δ	235-380-9	12202-17-4
124	Trilead dioxide phosphonate Δ	235-252-2	12141-20-7
125	Furan	203-727-3	110-00-9
126	Diethyl sulphate	200-589-6	64-67-5
127	Dimethyl sulphate	201-058-1	77-78-1

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No.	Chemical Substances	EC No.	CAS No.
128	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2
129	Dinoseb/ 6-sec-butyl-2,4-dinitrophenol	201-861-7	88-85-7
130	4,4'-Methylenedi-o-toluidine	212-658-8	838-88-0
131	4,4'-Oxydianiline and its salts	202-977-0	101-80-4
132	4-Aminoazobenzene	200-453-6	60-09-3
133	4-Methyl-m-phenylenediamine/ Toluene-2,4-diamine	202-453-1	95-80-7
134	6-Methoxy-m-toluidine/ p-Cresidine	204-419-1	120-71-8
135	Biphenyl-4-ylamine	202-177-1	92-67-1
136	o-Aminoazotoluene	202-591-2	97-56-3
137	o-Toluidine	202-429-0	95-53-4
138	N-methylacetamide	201-182-6	79-16-3
139	Ammonium pentadecafluorooctanoate/ APFO	223-320-4	3825-26-1
140	Pentadecafluorooctanoic acid/ PFOA	206-397-9	335-67-1
141	Dipentyl phthalate/ DPP	205-017-9	131-18-0
142	Cadmium Δ	231-152-8	7440-43-9
143	4-Nonylphenol, branched and linear, ethoxylated/ NPEO	--	--
144	Cadmium oxide Δ	215-146-2	1306-19-0
145	Cadmium sulphide Δ	215-147-8	1306-23-6
146	Dihexyl phthalate	201-559-5	84-75-3
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)/ C.I. Direct Red 28	209-358-4	573-58-0
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	217-710-3	1937-37-7
149	Imidazolidine-2-thione/ 2-imidazoline-2-thiol	202-506-9	96-45-7
150	Lead di(acetate) Δ	206-104-4	301-04-2
151	Trixylyl phosphate	246-677-8	25155-23-1
152	Sodium peroxometaborate Δ	231-556-4	7632-04-4
153	Cadmium chloride Δ	233-296-7	10108-64-2
154	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4
155	Sodium perborate; perboric acid, sodium salt Δ	239-172-9; 234-390-0	--
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) Δ	239-622-4	15571-58-1
159	Cadmium fluoride Δ	232-222-0	7790-79-6
160	Cadmium sulphate Δ	233-331-6	10124-36-4; 31119-53-6

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No.	Chemical Substances	EC No.	CAS No.
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) Δ	--	--
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 (EC No. 201-559-5)	271-094-0; 272-013-1	68515-51-5; 68648-93-1
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]	--	--
164	1,3-propanesultone	214-317-9	1120-71-4
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3
167	Nitrobenzene	202-716-0	98-95-3
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)	206-801-3	375-95-1; 21049-39-8; 4149-60-4
169	Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8
170	4,4'-isopropylidenediphenol (bisphenol A)	201-245-8	80-05-7
171	4-Heptylphenol, branched and linear	--	--
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3	335-76-2
173	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6
174	Perfluorohexane-1-sulphonic acid and its salt (PFHxS)	--	--
175	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]	--	--
176	Benz[a]anthracene	200-280-6	56-55-3, 1718-53-2
177	Cadmium nitrate Δ	233-710-6	10022-68-1, 10325-94-7
178	Cadmium carbonate Δ	208-168-9	513-78-0
179	Cadmium hydroxide Δ	244-168-5	21041-95-2
180	Chrysene	205-923-4	218-01-9, 1719-03-5

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No.	Chemical Substances	EC No.	CAS No.
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	--	--
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	209-008-0	552-30-7
183	Dicyclohexyl phthalate (DCHP)	201-545-9	84-61-7
184	Terphenyl, hydrogenated	262-967-7	61788-32-7
185	Octamethylcyclotetrasiloxane (D4)	209-136-7	556-67-2
186	Decamethylcyclopentasiloxane (D5)	208-764-9	541-02-6
187	Dodecamethylcyclohexasiloxane (D6)	208-762-8	540-97-6
188	Ethylenediamine (EDA)	203-468-6	107-15-3
189	Benzo[ghi]perylene	205-883-8	191-24-2
190	Disodium octaborate Δ	234-541-0	12008-41-2
191	Lead Δ	231-100-4	7439-92-1
192	Pyrene	204-927-3	129-00-0; 1718-52-1
193	Phenanthrene	201-581-5	85-01-8
194	Fluoranthene	205-912-4	206-44-0; 93951-69-0
195	Benzo[k]fluoranthene	205-916-6	207-08-9
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	239-139-9	15087-24-8
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)	--	--
199	2-methoxyethyl acetate	203-772-9	110-49-6
200	4-tert-butylphenol	202-679-0	98-54-4
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	--	--
202	Perfluorobutane sulfonic acid (PFBS) and its salts	--	--
203	Diisohexyl phthalate	276-090-2	71850-09-4
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5
205	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1
206	Dibutylbis(pentane-2,4-dionato-O,O')tin Δ	245-152-0	22673-19-4
207	Butyl 4-hydroxybenzoate	202-318-7	94-26-8
208	2-methylimidazole	211-765-7	693-98-1
209	1-vinylimidazole	214-012-0	1072-63-5
210	Bis(2-(2-methoxyethoxy)ethyl) ether	205-594-7	143-24-8

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211	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 Δ	--	--
212	1,4-dioxane	204-661-8	123-91-1
213	2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	--	--
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	--	--
215	4,4'-(1-methylpropylidene)bisphenol	201-025-1	77-40-7
216	Glutaral	203-856-5	111-30-8
217	Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17)	--	--
218	orthoboric acid, sodium salt Δ	--	--
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	--	--
220	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	204-327-1	119-47-1
221	Tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4
222	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	--	--
223	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	401-850-9	255881-94-8

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End of report

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