Regolamento (UE) 2025/40 / *Regulation (EU) 2025/40*

La presente checklist costituisce la pagina iniziale del Fascicolo Tecnico PPWR e identifica la documentazione disponibile e valutata a supporto della verifica dei requisiti applicabili all'imballaggio.
This checklist constitutes the first page of the PPWR Technical File and identifies the documentation available and reviewed to support verification of the requirements applicable to the packaging.

1. IDENTIFICAZIONE / *IDENTIFICATION*

Codice prodotto Giorgio Bormac ***Giorgio Bormac product code***	41500302 - 41500312
Descrizione prodotto ***Product description***	pallet in legno fumigato, scatola di cartone, spugna protettiva e sacchetto di plastica / fumigated wooden pallet, cardboard box, protective foam and plastic bag
Tipologia di imballaggio ***Packaging type***	☑ Prodotto / *Product* ☑ Spedizione esterno / *Outer shipping* ☐ Spedizione interno / *Inner shipping*
Data aggiornamento fascicolo ***Technical file update date***	20.10.2026

2. DOCUMENTAZIONE PRESENTE NEL FASCICOLO / *DOCUMENTATION INCLUDED IN THE TECHNICAL FILE*

Documentazione / Evidenza ***Documentation / Evidence***	**Presente** ***Available***	**N.A.** ***N.A.***	**Riferimento documento / Note** ***Document reference / Notes***
Dichiarazione PPWR del fornitore / fabbricante *PPWR declaration from supplier / manufacturer*	☑	☐	
Scheda tecnica / specifica tecnica dell'imballaggio *Packaging technical datasheet / technical specification*	☐	☑	
Informazioni su composizione, materiali, peso e dimensioni *Information on composition, materials, weight and dimensions*	☐	☑	
Dichiarazioni / evidenze relative a sostanze soggette a restrizione (es. metalli pesanti, PFAS ove applicabili) *Declarations / evidence concerning restricted substances (e.g. heavy metals, PFAS where applicable)*	☑	☐	
Informazioni / evidenze relative al contenuto di materiale riciclato, se	☐	☑	

applicabile *Information / evidence concerning recycled content, where applicable*			
Informazioni / evidenze relative alla riciclabilità *Information / evidence concerning recyclability*	☐	☑	
Rapporti di prova / analisi di laboratorio, se disponibili *Test reports / laboratory analyses, if available*	☑	☐	
Certificazioni o altre evidenze tecniche, se disponibili *Certifications or other technical evidence, if available*	☐	☑	
Informazioni relative all'identificazione / etichettatura dell'imballaggio *Information concerning packaging identification / labelling*	☐	☑	
Altra documentazione tecnica pertinente *Other relevant technical documentation*	☐	☑	

3. VERIFICA DOCUMENTALE / *DOCUMENT REVIEW*

Esito / *Outcome:*

☑ Documentazione adeguata ai requisiti applicabili / *Documentation adequate for applicable requirements*

☐ Documentazione da integrare / *Documentation to be supplemented*

☐ In attesa di documentazione dal fornitore / *Awaiting supplier documentation*

Eventuali note / integrazioni richieste / *Notes / additional documentation required:*

Verificato da / *Reviewed by:*	**Data / *Date:***	**Firma / Sigla / *Signature / Initials:***
Chiara Borellini	20/10/2026	

DONGPING WOOD PROCESSING FACTORY, CHANGLE COUNTY
NO.263, JUNQIUGUANZHUANG VILLAGE, QIAOGUAN TOWN,
CHANGLE COUNTY, WEIFANG CITY, SHANDONG PROVINCE, P.R.CHINA

Sample Descriptions	:	PLYWOOD-WOOD PACKAGING PURPOSE
Country of Origin	:	CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

****

SGS Ref No.	:	TAOHL26010173101
Sample Receiving Date	:	Aug 17, 2026
Test Performing Date	:	Aug 17, 2026 to Aug 19, 2026

Test Requested	Result
Article 5(4) of Regulation (EU) 2025/40 (Packaging and Packaging Waste Regulation, PPWR) - Total Lead, Cadmium, Mercury and Hexavalent Chromium content	Pass

Remark: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Zhou Xinkuan, SK
Authorized Signatory

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Verification:
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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	TAO26-0101731-0001.C001	Beige/light brown/brown/dark brown board

Remarks:

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

Article 5(4) of Regulation (EU) 2025/40 (Packaging and Packaging Waste Regulation, PPWR) - Total Lead, Cadmium, Mercury and Hexavalent Chromium content

Test Method: With reference to CEN CR 13695-1:2000, analysis was performed by ICP-OES/AAS, UV-Vis.

Test Item(s)	Limit	Unit(s)	MDL	A1
Cadmium(Cd)	-	mg/kg	5	ND
Lead(Pb)	-	mg/kg	5	ND
Mercury(Hg)	-	mg/kg	5	ND
Hexavalent Chromium(CrVI)	-	mg/kg	8	ND
Total (Cd+ Pb + Hg + CrVI)	100	mg/kg	-	ND
Conclusion				**Pass**

Notes:
REGULATION (EU) 2025/40 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 December 2024 on packaging and packaging waste, amending Regulation (EU) 2019/1020 and Directive (EU) 2019/904, and repealing Directive 94/62/EC.

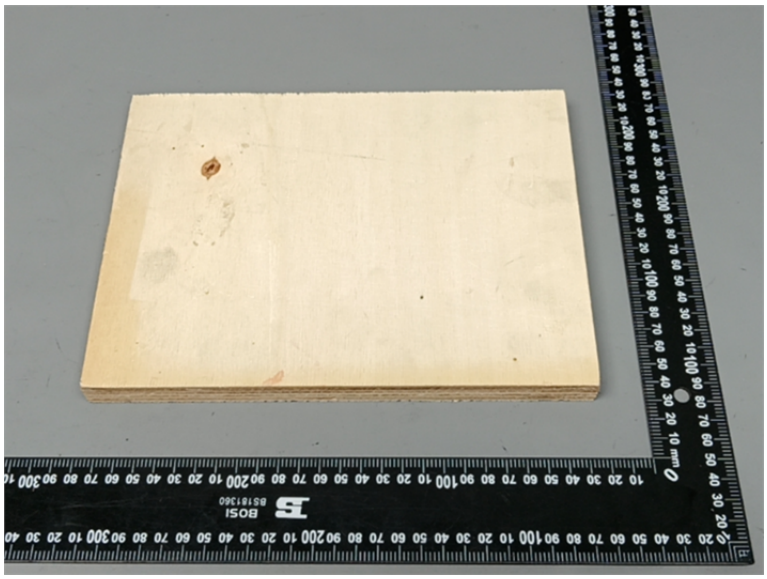
Remark: Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w* =0) stated in ILAC-G8:09/2019.

****

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Sample Photo:



Sample As Received

SGS authenticate the photo on original report only

End of Report

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Test Report

No.: TSNEC25004698918 Date: January 6, 2026

(SVHC)

Client Name: Nine Dragons Paper (Tianjin) Co., Ltd.

Client Address: Ninghe Economic Development Zone, Tianjin, Wuwei Road, Nine Dragons Paper (Tianjin) Co., Ltd.

Sample Name: Cow Cardboard

Model: 250

Customer Reference Information: 60, 62, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 170, 180, 190, 200, 240, 250

Main Components: Paper

The above samples and information were provided by the customer.

SGS Job Number: TJP25-007379

Sample Receipt Date: December 19, 2025

Testing Period: December 19, 2025 – December 26, 2025

Testing Requirements: Screen for SVHCs on the candidate list as per the client's requirements:

(i) Screen 251 Substances of Very High Concern (SVHCs) based on the Candidate List of SVHCs published by the European Chemicals Agency as of November 5, 2025, for authorization review (in accordance with EU Regulation No. 1907/2006, REACH).

Screening for potential SVHCs as per the client's request:

(i) Screening test for 1 potential Substance of Very High Concern (SVHC) to be determined.

(ii) Screen for three Substances of Very High Concern (SVHCs) based on the European Chemicals Agency's (ECHA) advisory list of potential SVHCs published as of November 5, 2025 (in accordance with EU Regulation No. 1907/2006, REACH).

Testing Methods: See the following page.

Test Results: See the following pages.

Summary:

Based on the specific scope and screening tests, for the submitted samples, the results for the Candidate List of Substances of Very High Concern (SVHCs) under consideration for authorization 251 SVHCs had results ≤ 0.1% (w/w).	Approved by

Authorized Signature of SGS Standard Technical Services (Tianjin) Co., Ltd.

Reabeca Zhou (Zhou Yan),
Authorized Signatory

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(SVHC)

Based on the specific scope and screening tests, the results for the 4 potential SVHCs in the submitted samples were ≤ 0.1% (w/w).	Passed

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(SVHC)

Note:

1. The chemical analysis of specific substances of very high concern (SVHCs) covered in this report was performed using available analytical techniques in accordance with the following documents published by the European Chemicals Agency.

   http://echa.europa.eu/web/guest/candidate-list-table

   This list of documents has been evaluated by the European Chemicals Agency and is subject to change in the future.

2. REACH Regulatory Obligations:

   2.1 Regarding Articles:

   Notification:

   Article 33 of Regulation (EC) No. 1907/2006 stipulates that all suppliers of articles containing substances that meet the criteria set forth in Article 57, are identified in accordance with Article 59(1), and are present in a concentration greater than 0.1% by weight, shall provide the recipient of the article with sufficient information available to them to ensure the safe use of the article; this information shall include, at a minimum, the names of the Candidate List substances contained therein.

   Notice:

   Pursuant to Regulation (EC) No. 1907/2006, if both of the following conditions are met—where a substance meets the criteria set forth in Article 57 and has been identified in accordance with Article 59(1)—any European manufacturer or importer of the article shall notify the European Chemicals Agency in accordance with Article 7(4):(a) The total content of a substance on the Candidate List in the article exceeds 1 metric ton per year per manufacturer or importer; (b) The total content of a substance on the Candidate List in the article exceeds a concentration of 0.1% by weight.

   As of January 5, 2021, companies supplying articles containing Substances of Very High Concern (SVHCs) from the Candidate List at concentrations exceeding 0.1% by weight (w/w) to the EU market must comply with the requirements of the Waste Framework Directive 2008/98/EC and submit SCIP notifications regarding these articles to ECHA.

   2.2 Regarding Materials:

   The test results in this report are based on the test samples. If the sample consists of a homogeneous material, this result does not represent the

   SVHC concentration in the finished product. If the sample consists of homogeneous materials tested in equal proportions, these materials may originate from different articles.

   If the sample is a substance or mixture and is exported directly to the EU, the customer is responsible for complying with the supply chain information transmission obligations under Article 31 of the EU REACH Regulation (No. 1907/2006) and the obligations regarding authorized Substances of Very High Concern (SVHCs) listed in Annex XIV.

   2.3 Regarding substances and preparations:

   If the concentration of a substance of very high concern in a sample exceeds 0.1% (w/w) and/or the specific concentration limits set forth in EU Regulation No. 1272/2008 (CLP) and its amendments, customers are advised to prepare a Safety Data Sheet (SDS) for the relevant substance of very high concern in accordance with EU Regulation No. 1907/2006 (REACH) to comply with supply chain communication obligations, such as

   - Substances classified as hazardous under EU Regulation (EC) No. 1272/2008 (CLP).

   -Classified as a hazardous mixture under EU Regulation (EC) No. 1272/2008 (CLP), where the concentration of a substance is greater than or equal to the concentration limits set forth in EU

   1272/2008; or

   - Not classified as a hazardous mixture under EU Regulation (EC) No. 1272/2008 (CLP), but containing:

   (a) substances harmful to human health or the environment, with a concentration of ≥1% (w/w) in solid or liquid mixtures (i.e., non-gaseous mixtures) or ≥0.2% by volume in gaseous mixtures, or

   (b) PBT or vPvB substances, with an individual concentration of ≥0.1% (w/w) in solid or liquid mixtures (i.e., non-gaseous mixtures), or

   (c) substances on the Candidate List of Substances of Very High Concern (CSVHC) under the Authorization Review (for reasons other than those mentioned above) with a concentration of ≥0.1% (w/w), or

   (d) Substances for which EU-wide occupational exposure limits have been established.

3. If the SVHC detection result in a sample exceeds the reporting threshold, we recommend that the client conduct further quantitative analysis to identify the components containing SVHCs and determine the exact concentration of the SVHC substance.

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Member of the SGS Group (SGS SA)

Test Samples:

Test Group:

Test Result ID	Sample Description	Test Component ID	SGS Sample ID
001	Light brown/brown paper	A2	TSN25-0046989-0001.C002

Test Methods:

Analysis was performed using ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS, and colorimetric methods, in accordance with SGS internal procedures.

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(SVHC)

Results for SVHCs on the Candidate List

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All SVHCs on the Candidate List	-	ND	-

Potential SVHC Results

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All potential SVHCs	-	ND	-

Note:

(1) The table above shows only the detected SVHCs; SVHCs below the RL are not listed. Please refer to the appendix for a complete list of all tested SVHCs.

(2) RL = Reporting Limit (Data is displayed when the test result is ≥ RL. RL is different from regulatory limits.)

ND = Not Detected (<RL); ND applies to SVHC substances.

(3) * Results are calculated based on the worst-case scenario using selected element results and are evaluated according to the substance's intended use and material properties;

** Results are calculated based on the results of selected markers under worst-case scenarios. Results for boron compounds are derived from the boron element results obtained by ICP-OES analysis of water extracts.

The result for barium diborate is derived from the water-extracted boron and barium element results measured by ICP-OES.

RL = 0.005% applies to elements (e.g., cobalt, arsenic, lead, chromium, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium, cadmium), except for molybdenum, for which RL = 0.0005%, boron has an RL of 0.0025% (only for lead tetrafluoroborate), and fluorine has an RL of 0.050%.

(4) § A substance is proposed as an SVHC only if it contains misketone (CAS No.: 90-94-8) or misketine (CAS No.: 101-61-1) at a concentration of ≥ 0.1% (w/w).

(5) / = Potential SVHC

Unless otherwise specified, compliance is determined using the simple acceptance (w=0) binary decision rule in accordance with ILAC-G8:09/2019. Unless otherwise specified, the results in this report are valid only for the samples tested. This report may not be reproduced in part without the written permission of our company.

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(SVHC)

Appendix:

All tested SVHCs

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	0.050
I	2	2,4,6-Trinitro-5-tert-butyl-m-xylene (xylene musk)	81-15-2	0.050
I	3	C10-13 chlorinated hydrocarbons (short-chain chlorinated paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Butyl benzyl phthalate (BBP)	85-68-7	0.050
I	6	Di(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.050
I	7	Tributyltin oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Arsenic(V) oxide*	1303-28-2	0.005
I	10	Arsenic(III) oxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and its non-enantiomers (α-HBCDD, β-HBCDD, γ-HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Anthracene oil**	90640-80-5	0.050
II	18	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	19	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	20	Anthracene oil, anthracene paste, light oil**	91995-17-4	0.050
II	21	Anthracene oil, low anthracene content**	90640-82-7	0.050
II	22	Diisobutyl phthalate	84-69-5	0.050
II	23	Lead chromate*	7758-97-6	0.005
II	24	Molybdenum Chrome Red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead Chrome Yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	26	Asphalt, coal tar, high-temperature**	65996-93-2	0.050
II	27	Tris(2-chloroethyl) phosphate	115-96-8	0.050
II	28	Acrylamide	79-06-1	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Anhydrous sodium tetraborate*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Sodium borate hydrate*	12267-73-1	0.005
III	36	Trichloroethylene	79-01-6	0.050
IV	37	Ethylene glycol ether	110-80-5	0.050

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(SVHC)

Batch	No.	Substance Name	CAS No.	RL (%)
IV	38	Ethylene glycol monomethyl ether	109-86-4	0.050
IV	39	Chromic acid, oligomers of chromic acid and dichromic acid, dichromic acid*	-	0.005
IV	40	Chromium(III) oxide*	1333-82-0	0.005
IV	41	Cobalt carbonate*	513-79-1	0.005
IV	42	Cobalt acetate*	71-48-7	0.005
IV	43	Cobalt nitrate*	10141-05-6	0.005
IV	44	Cobalt sulfate*	10124-43-3	0.005
V	45	1,2,3-Trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di(C6-8-branched-chain)alkyl esters (rich in C7)	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid di(C7-11 branched and linear) alkyl (alcohol) esters	68515-42-4	0.050
V	48	1-Methyl-2-pyrrolidone	872-50-4	0.050
V	49	Ethylene glycol ethyl ether acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	4,4'-Diamino-3,3'-dichlorodiphenylmethane	101-14-4	0.050
VI	54	2-Methoxyaniline	90-04-0	0.050
VI	55	p-Tert-octylphenol	140-66-9	0.050
VI	56	Aluminosilicate refractory ceramic fiber*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Diethylene glycol dimethyl ether	111-96-6	0.050
VI	59	Dimethoxyethyl phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Chromium chromate*	24613-89-6	0.005
VI	62	Oligomer of formaldehyde and aniline	25214-70-4	0.050
VI	63	Lead azide*	13424-46-9	0.005
VI	64	Lead picrate*	6477-64-1	0.005
VI	65	Lead stearate*	15245-44-0	0.005
VI	66	N,N-Dimethylacetamide	127-19-5	0.050
VI	67	Zinc chromate hydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium zinc chromate hydroxide*	11103-86-9	0.005
VI	70	Lead arsenate*	3687-31-8	0.005
VI	71	Zirconia-Alumina-Silicate Refractory Ceramic Fiber*	-	0.005
VII	72	C.I. Basic Blue 26§	2580-56-5	0.050
VII	73	C.I. Basic Violet 3§	548-62-9	0.050
VII	74	Triethylene glycol dimethyl ether (TEGDME)	112-49-2	0.050
VII	75	Ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-Bis(dimethylamino)benzophenone (Mies' ketone)	90-94-8	0.050
VII	77	4,4'-Di(dimethylamino)-4''-methylaminotriphenylmethanol§	561-41-1	0.050
VII	78	Boron trioxide*	1303-86-2	0.005

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Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead methylsulfonate*	17570-76-2	0.005
VII	81	N,N,N',N'-Tetramethyl-4,4'-diaminodiphenylmethane (Miescher's base)	101-61-1	0.050
VII	82	1,3,5-Tris(epoxyethylmethyl)-1,3,5-triazine-2,4,6-(1H, 3H,5H)-trione (TGIC)	2451-62-9	0.050
VII	83	C.I. Solvent Blue 4§	6786-83-0	0.050
VII	84	1,3,5-tri-[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H, 3H, 5H)-trione (β-TGIC)	59653-74-6	0.050
VIII	85	Lead dibasic phthalate*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid di(branched-chain and linear-chain) pentyl ester	84777-06-0	0.050
VIII	87	Ethylene glycol diethyl ether	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolane	143860-04-2	0.050
VIII	90	p-Tert-octylphenol ethoxy ether	-	0.050
VIII	91	4,4'-Diamino-3,3'-dimethyldiphenylmethane	838-88-0	0.050
VIII	92	4,4'-Diaminodiphenyl ether and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	2,4-Diaminotoluene	95-80-7	0.050
VIII	95	4-Nonyl (branched and linear) phenol	-	0.050
VIII	96	2-Methoxy-5-methylaniline	120-71-8	0.050
VIII	97	Lead acetate basic*	51404-69-4	0.005
VIII	98	4-Aminobiphenyl	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Azodicarboxamide	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulfate	64-67-5	0.050
VIII	104	Diisopentyl phthalate	605-50-5	0.050
VIII	105	Dimethyl sulfate	77-78-1	0.050
VIII	106	Dilephol	88-85-7	0.050
VIII	107	Bis(octadecanoato)dioxotrilead*	12578-12-0	0.005
VIII	108	Lead C16-18 fatty acid*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Perfluoroundecanoic acid	2058-94-8	0.050
VIII	111	Perfluoroundecanoic acid	376-06-7	0.050
VIII	112	Methyl hexahydrophthalic anhydride, 4-Methyl hexahydrophthalic anhydride, 1-Methyl hexahydrophthalic anhydride, 3-Methyl hexahydrophthalic anhydride	-	0.050
VIII	113	Lead tetrafluoroborate*	13814-96-5	0.005
VIII	114	Lead aminocyanide*	20837-86-9	0.005
VIII	115	Lead nitrate*	10099-74-8	0.005

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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Basic lead sulfate*	12036-76-9	0.005
VIII	118	Trilead tetroxide*	1314-41-6	0.005
VIII	119	Lead titanate*	12060-00-3	0.005
VIII	120	Lead zirconate titanate*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	1,2-Epoxypropane	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	n-Pentyl isopentyl phthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	2-Aminotoluene	95-53-4	0.050
VIII	128	Perfluorotridecanoic acid	72629-94-8	0.050
VIII	129	Lead(V) tetroxide*	12065-90-6	0.005
VIII	130	Lead antimony yellow*	8012-00-8	0.005
VIII	131	Lead-doped barium silicate*	68784-75-8	0.005
VIII	132	Lead silicate*	11120-22-2	0.005
VIII	133	Lead bisulfite*	62229-08-7	0.005
VIII	134	Tetraethyl lead*	78-00-2	0.005
VIII	135	Tetraplumbic trioxide*	12202-17-4	0.005
VIII	136	Perfluorododecanoic acid	307-55-1	0.050
VIII	137	Basic lead carbonate*	1319-46-6	0.005
VIII	138	Lead dihydrogen phosphite*	12141-20-7	0.005
IX	139	4-Nonyl (branched and linear) phenol ethoxy ether	-	0.050
IX	140	Ammonium perfluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005
IX	143	Di-n-pentyl phthalate (DPP)	131-18-0	0.050
IX	144	Perfluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulfide*	1306-23-6	0.005
X	146	Di-n-hexyl phthalate	84-75-3	0.050
X	147	C.I. Direct Red 28	573-58-0	0.050
X	148	C.I. Direct Black 38	1937-37-7	0.050
X	149	2-Mercaptoimidazoline	96-45-7	0.050
X	150	Lead acetate*	301-04-2	0.005
X	151	Tris(xylene) phosphate	25155-23-1	0.050
XI	152	Di(branched and linear)hexyl phthalate	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate hydrate*	-	0.005
XI	155	Sodium perborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328)	25973-55-1	0.050

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Batch	Serial No.	Substance Name	CAS No.	RL (%)
XII	157	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	Di-n-octyl-bis(2-ethylhexylmercaptoacetate)tin (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulfate*	10124-36-4 /31119-53-6	0.005
XII	161	Di-n-octyl-bis(2-ethylhexylthioglycolate) tin (DOTE) and mono-octyl-tri(2-ethylhexylthioglycolate) tin (MOTE) Reactants	-	0.050
XIII	162	1,2-Benzenedicarboxylic acid, di(C6-10) alkyl esters / 1,2-Benzenedicarboxylic acid, mixed dihexyl, dioctyl, and decyl esters, in which dihexyl phthalate accounts for ≥0.3%	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl -1,3-dioxane[1], 5-sec-butyl-2-(4,6-dimethylcyclo hex-3-en-1-yl)-5-methyl-1,3-dioxane[2] [any individual isomers of [1] and [2], or any combination thereof, as individual isomers or any combination thereof]	-	0.050
XIV	164	1,3-Propanesulfonic acid lactone	1120-71-4	0.050
XIV	165	2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)benzene (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononanoic acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo(a)pyrene	50-32-8	0.050
XVI	170	4,4'-Isopropylidene biphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptyl (branched and linear) phenol	-	0.050
XVI	172	Perfluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-tert-Amylphenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulfonic acid and its salts	-	0.050
XVIII	175	Bis(hexachlorocyclopentadiene)cyclooctane (including any cis and trans isomers or a combination thereof)	-	0.050
XVIII	176	Benzo[a]anthracene (BaA)	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	(CHR)	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazole-2,5-dithione, formaldehyde, and branched and linear 4-heptylphenol (RP-HP) [containing both branched and linear 4-heptylphenol by weight) [with a weight ratio of branched and linear	-	0.050
XIX	182	1,2,4-benzenetricarboxylic anhydride (terephthalic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benz(g,h,i)perylene (dinanaphthylbenzene) (BPE)	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Sodium borate*	12008-41-2	0.005

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Batch	No.	Substance Name	CAS No.	RL (%)
XIX	187	Dodecamethylcyclhexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Hydrogenated triphenylmethane	61788-32-7	0.050
XX	192	1,7,7-Trimethyl-3-(phenylmethylene)bicyclo[2.2.1]hept-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	4,4'-(1,3-dimethylbutyl)diphenol (1,3-DMBBP)	6807-17-6	0.050
XX	194	Benz(k)fluoranthene (BkF)	207-08-9	0.050
XX	195	Fluoroanthrene (FLT)	206-44-0	0.050
XX	196	Phenanthrene (PHE)	85-01-8	0.050
XX	197	Pyrene (PYR)	129-00-0	0.050
XXI	198	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid and its salts and acyl (including monomers and mixtures) (HFPO-DA)	-	0.050
XXI	199	2-Methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-Butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tri(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.050
XXII	202	2-Benzyl-2-dimethylamino-4'-morpholinophenyl butanone	119313-12-1	0.050
XXII	203	2-Methyl-1-(4-methylthio-phenyl)-2-morpholinyl-1-propanone	71868-10-5	0.050
XXII	204	Diisopropyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutanesulfonic acid and its salts	-	0.050
XXIII	206	1-Vinylimidazole	1072-63-5	0.050
XXIII	207	2-Methylimidazole	693-98-1	0.050
XXIII	208	Butyl p-hydroxybenzoate	94-26-8	0.050
XXIII	209	Bis(acetylacetonyl)dibutyltin**	22673-19-4	0.050
XXIV	210	Tetraglycol dimethyl ether	143-24-8	0.050
XXIV	211	Dioctyltin dilaurate and any other dioctyltin bis(fatty (Acetoxy) derivatives**	-	0.050
XXV	212	1,4-dioxane	123-91-1	0.050
XXV	213	Dibromo-neopentyl glycol (BMP); Tribromo-neopentyl alcohol (TBNPA); 2,3-Dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	Lily-of-the-valley aldehyde and its stereoisomers	-	0.050
XXV	215	Bisphenol B	77-40-7	0.050
XXV	216	Glutaraldehyde	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffin (MCCP)	-	0.050
XXV	218	Sodium borate*	13840-56-7	0.005
XXV	219	Para-dodecylphenol and its isomers (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-Trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]hept-2-one, including individual isomers and/or combinations thereof (4-MBC)	-	0.050
XXVI	221	2,2'-Methylenebis-(4-methyl-6-tert-butylphenol) (DBMC)	119-47-1	0.050

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Batch	Serial No.	Substance Name	CAS No.	RL (%)
XXVI	222	S-(Tricyclo[5.2.1.0'2,6]dec-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) dithiophosphate	255881-94-8	0.050
XXVI	223	Vinyl-tri(2-methoxyethoxy)silane	1067-53-4	0.050
XXVII	224	N-Hydroxymethylacrylamide	924-42-5	0.050
XXVIII	225	1,2-Bis(2,4,6-tribromophenoxy)ethane	37853-59-1	0.050
XXVIII	226	Tetrabromobisphenol A	79-94-7	0.050
XXVIII	227	Bisphenol S	80-09-1	0.050
XXVIII	228	Barium diboron tetroxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate	-	0.050
XXVIII	230	Isobutyl p-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	Mixture of perfluoroisopropylmorpholine and perfluoropropylmorpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulfone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2'-Hydroxy-5'-tert-octylphenyl)benzotriazole (UV-329)	3147-75-9	0.050
XXX	238	2-(4-Methylbenzyl)-2-(dimethylamino)-1-(4-morpholinophenyl)-1-butanone (PI-379)	119344-86-4	0.050
XXX	239	Bumetazol (UV-326)	3896-11-5	0.050
XXX	240	Products of the oligomerization and alkylation reactions of 2-phenylpropene with phenol	-	0.050
XXXI	241	Diisopropylbenzene peroxide	80-43-3	0.050
XXXI	242	Triphenyl phosphate	115-86-6	0.050
XXXII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxo pyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.050
XXXII	244	O,O,O-Triphenyl thiophosphate	597-82-0	0.050
XXXII	245	Octamethyltrisiloxane	107-51-7	0.050
XXXII	246	Perfluorotripropylamine	338-83-0	0.050
XXXII	247	Reaction of triphenyl thiophosphate and tert-butylphenyl derivatives reaction products	192268-65-8	0.050
XXXIII	248	Methyltris(trimethylsiloxy)silane	17928-28-8	0.050
XXXIII	249	Decamethyl tetrasiloxane	141-62-8	0.050
XXXIII	250	Active Brown 51	-	0.050
XXXIV	251	Decabromodiphenylethane (DBDPE)	84852-53-9	0.050
/	252	Resorcinol	108-46-3	0.050
/	253	n-hexane	110-54-3	0.050
/	254	4,4'-Dihydroxydiphenylmethane (BPF)	620-92-8	0.050
/	255	4,4'-[2,2,2-Trifluoro-1-(trifluoromethyl)ethylidene]bisphenol (BPAF) and its salts	-	0.050

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd. Chemical Laboratory

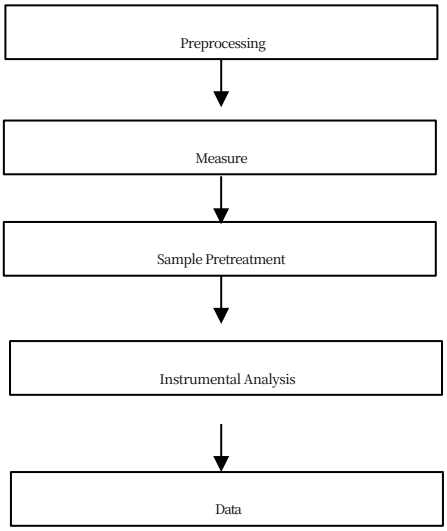
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(SVHC)

Annex

Testing Flowchart

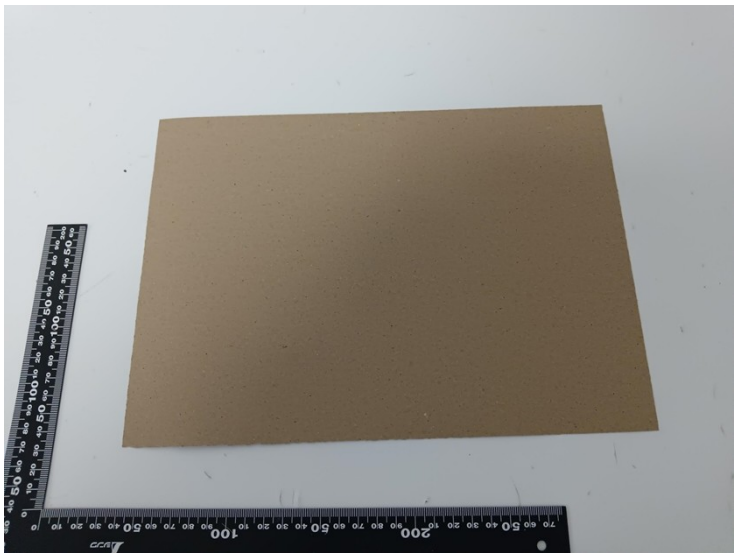


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Sample Photos:



This photograph is intended to be used with the original SGS report TSNEC25004698918

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检测报告
Test Report

报告编号 A2260460118101001E
Report No. A2260460118101001E

报告抬头公司名称 苏州派艾格包装材料有限公司
Company Name shown on Report SUZHOU PAGR PACKAGING MATERIALS CO., LTD
地 址 江苏省太仓市浮桥镇富桥工业园三期19-21幢
Address TAICANG RICH BRIDGE PONTOON BRIDGE TOWN INDUSTRIAL PARK, THE THIRD PHASE OF 19-21

以下测试之样品及样品信息由申请者提供并确认
The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称 Sample Name	EPE珍珠棉 EPE Pearl cotton
样品接收日期 Sample Received Date	2026.06.05 Jun. 5, 2026
样品检测日期 Testing Period	2026.06.05-2026.06.08 Jun. 5, 2026 to Jun. 8, 2026
检测要求 **Test Requested**	根据客户要求，对所提交样品中的铅(Pb)，镉(Cd)，汞(Hg)，六价铬(Cr(VI))，多溴联苯(PBBs)，多溴二苯醚(PBDEs)，邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)，铍(Be)，氟(F)，氯(Cl)，溴(Br)，碘(I)进行测试。 As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Beryllium(Be), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I) in the submitted sample(s).
检测依据/检测结果 **Test Method/Test Result(s)**	请参见下页。 Please refer to the following page(s).

批 准
Approved by: 宋岩

技术经理 Technical Manager

日 期
Date 2026.06.08

苏州市华测检测技术有限公司
Centre Testing International(Suzhou) Co.,Ltd
No. R375301186
江苏省苏州市相城区澄阳路3286号
No.3286Chengyang Road, Xiangcheng District, Suzhou,Jiangsu

检测报告
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检测依据 Test Method

测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017和/或IEC 62321-5:2013测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
铍 Beryllium(Be)	参考US EPA 3052:1996 & US EPA 6010D:2018* Refer to US EPA 3052:1996 & US EPA 6010D:2018*	ICP-OES
氟 Fluorine (F)	EN 14582:2016	IC
氯 Chlorine (Cl)	EN 14582:2016	IC
溴 Bromine (Br)	EN 14582:2016	IC
碘 Iodine (I)	EN 14582:2016	IC

检测报告
Test Report

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
铅 Lead (Pb)	N.D.	2 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
多溴联苯 Polybrominated Biphenyls (PBBs)		
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)		
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg

检测报告
Test Report

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)		
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
铍 Beryllium (Be)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
氟 Fluorine (F)	N.D.	10 mg/kg
氯 Chlorine (Cl)	N.D.	10 mg/kg
溴 Bromine (Br)	N.D.	10 mg/kg
碘 Iodine (I)	N.D.	10 mg/kg

检测报告
Test Report

样品/部位描述 Sample/Part Description

序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	001	白色泡棉 White foam

备注: **对于检测铅，镉，汞，铍之样品已消解完全。**
-N.D. = 未检出 (小于方法检出限)
-mg/kg = ppm = 百万分之一

Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Beryllium.**

-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million

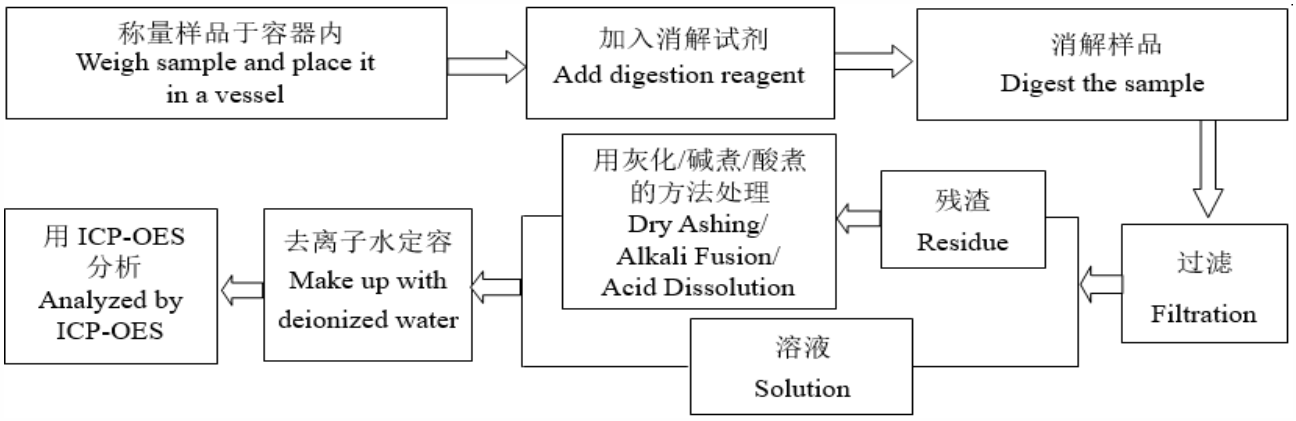
注释: **本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。**
“*”表示该方法不在CNAS认可范围内。

Note: **The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.**
“*” indicates the method(s) is (are) not in CNAS accreditation scope.

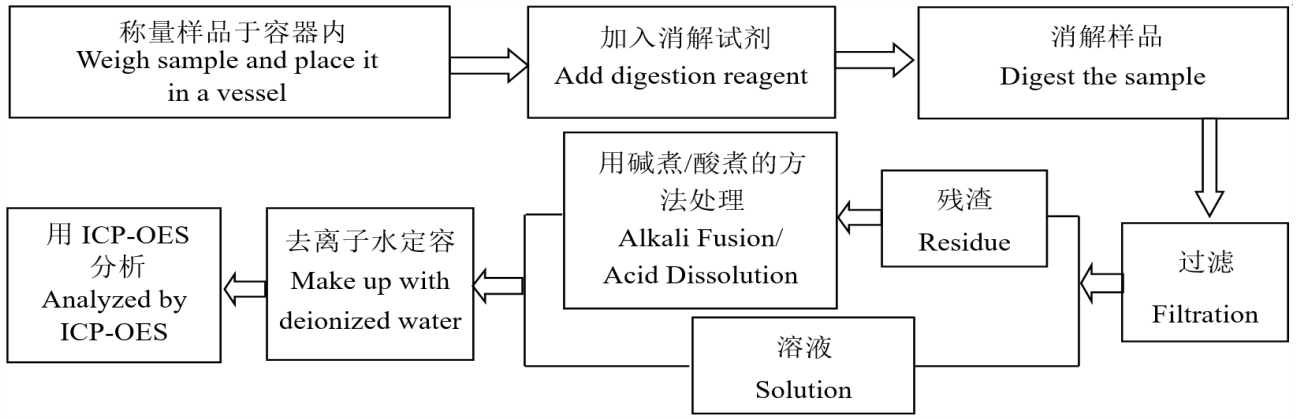
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检测流程 Test Process

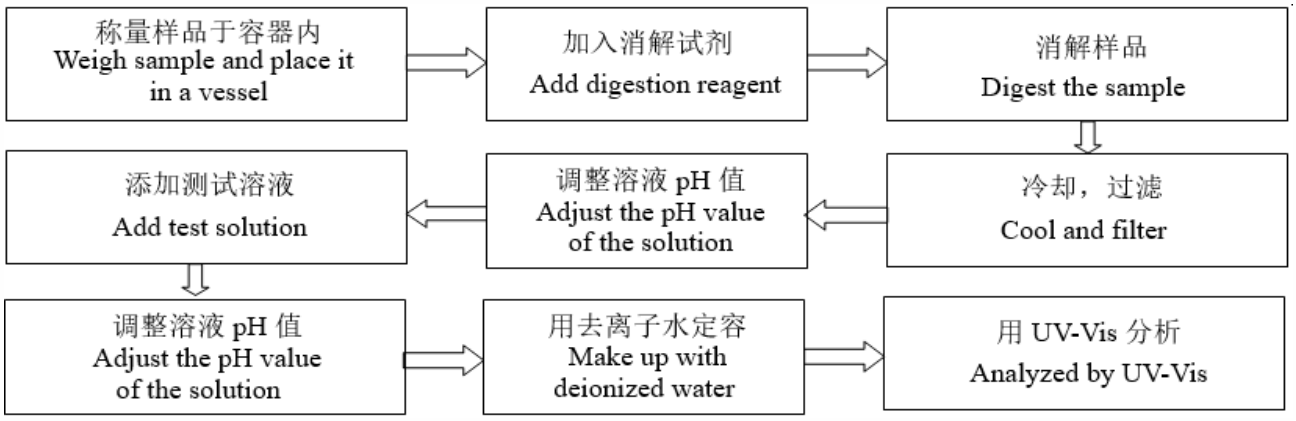
1. 铅(Pb), 镉(Cd), 铬(Cr)
Lead (Pb), Cadmium (Cd), Chromium (Cr)



2. 汞(Hg)
Mercury (Hg)

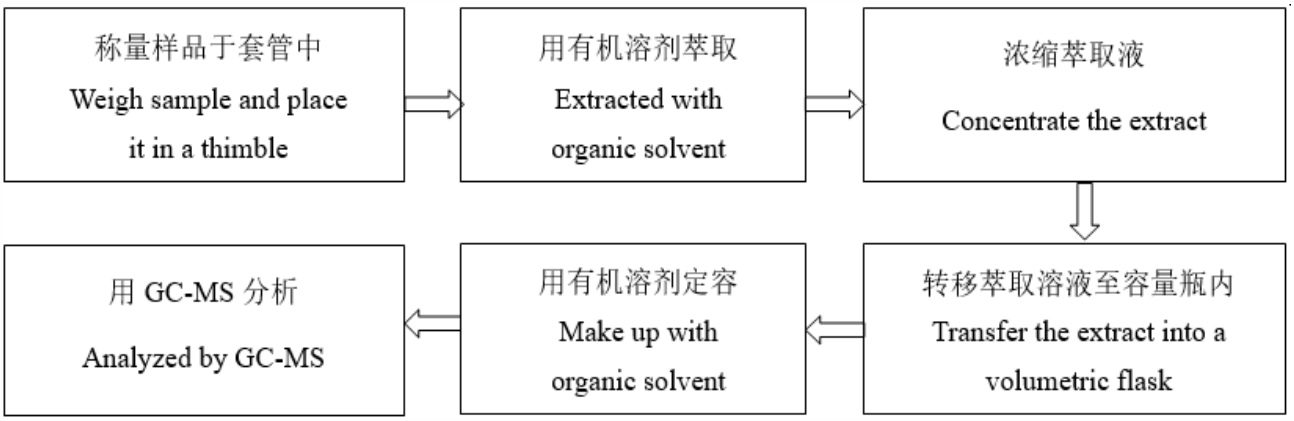


3. 六价铬(Cr(VI))
Hexavalent Chromium (Cr(VI))

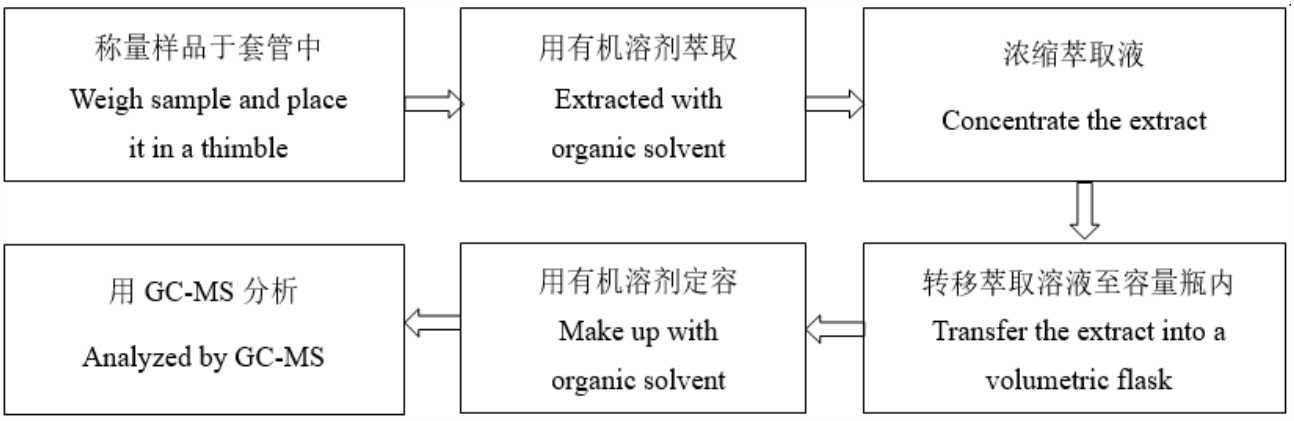


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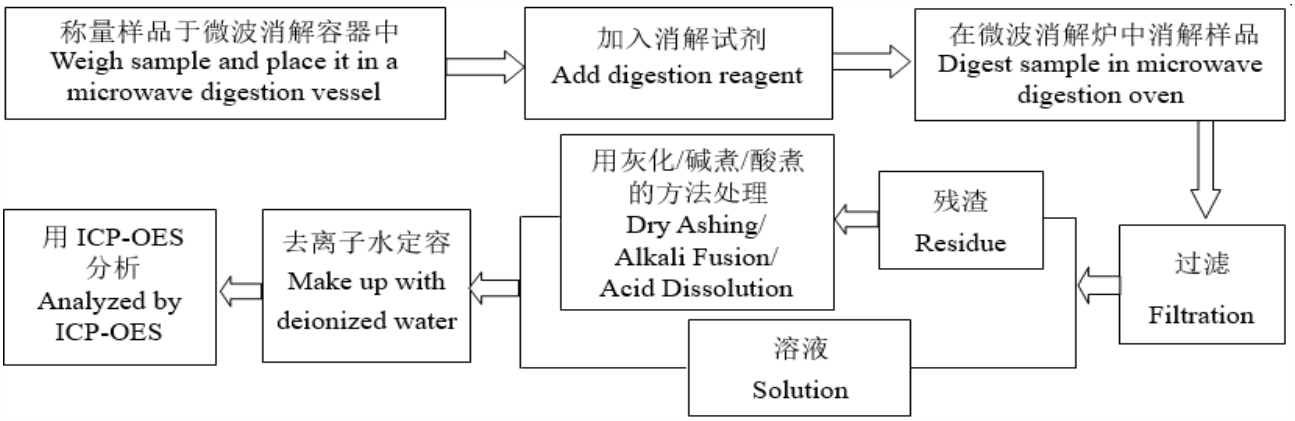
4. 多溴联苯(PBBs)， 多溴二苯醚(PBDEs)
Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. 邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)
Phthalates (DBP, BBP, DEHP, DIBP)

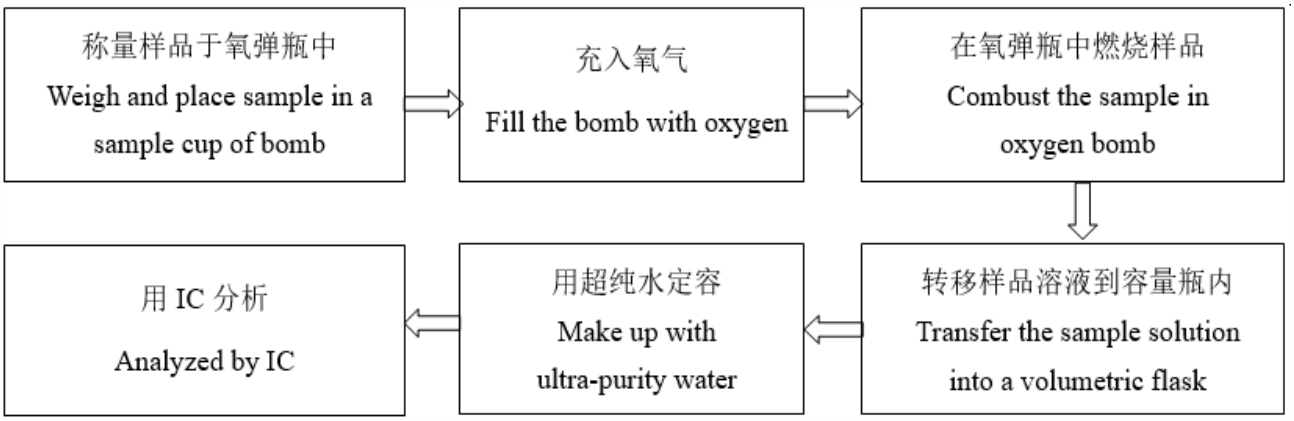


6. 铍(Be)
Beryllium(Be)



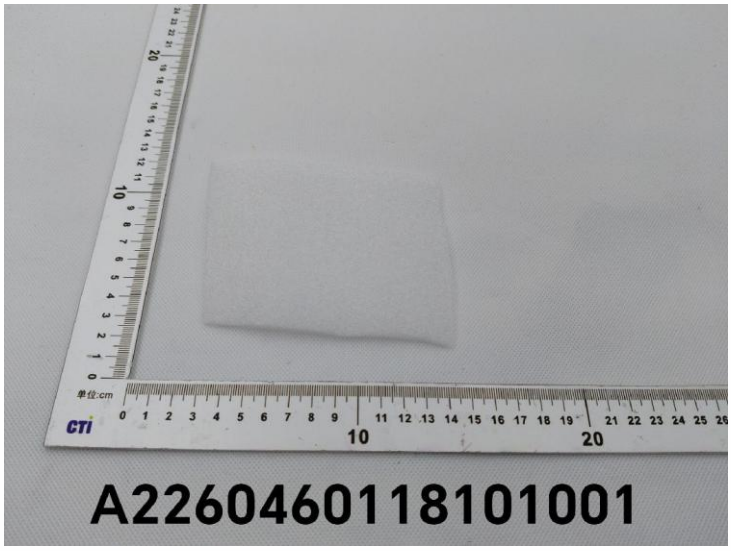
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7. 氟(F)， 氯(Cl)， 溴(Br)， 碘(I)
Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)



检测报告
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样品图片
Photo(s) of the sample(s)



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报告结束

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Test Report

Report No.: NTCKTU3D4102507D1 Issue Date: May 9, 2025 Page 1 of 22

(SVHC)

Client: Qingdao Yuchangsheng Plastic Industry Co., Ltd.

Address: Xidayuzhuang, Duanbolan Town, Jimo District, Qingdao City The client has provided the following sample information:

Sample Name: Plastic

Packaging Bag Sample Model: 416#

Sample Receipt Date: April 30, 2025

Sample Testing Dates: April 30, 2025 – May 9, 2025

Test Items: (1) 247 Substances of Very High Concern (SVHC)

(2) 4 proposed Substances of Very High Concern (SVHC)

(3) 6 pre-selected Substances of Very High Concern (SVHC) Reference Methods: See next page

Test Results: See the next page Test Conclusions:

Testing Requirements	Conclusion
The concentrations of all 247 Substances of Very High Concern (SVHCs) were less than 0.1%.	Compliant
The concentrations of all 4 proposed Substances of Very High Concern (SVHCs) were less than 0.1%	Compliant
The concentrations of all 6 pre-selected Substances of Very High Concern (SVHCs) are less than 0.1%	Compliant

Approver:

微信扫一扫，使用小程序 小程序扫一扫，在线验证

Code: a5icaab

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(1) 247 Substances of Very High Concern (SVHC) Reference Methods:

No.	Substance Name	Reference Methods and Instruments	Substance Category	CAS Number	EC No.	Detection Limit
1	Anthracene	Reference: EPA 3540C:1996/EPA 8270E:2018, GC-MS	Persistence, Bioaccumulation, and Toxicity Substance	120-12-7	204-371-1	0.0005
2	Butyl benzyl phthalate	Reference: EPA 8061A:1996, GC-MS	Reproductive toxicity Substance	85-68-7	201-622-7	0.003
3	Dibutyl phthalate	Refer to EPA 8061A:1996, GC-MS	Reproductive toxicity Substance	84-74-2	201-557-4	0.003
4	Di(2-ethyl hexyl phthalate	Reference: EPA 8061A:1996, GC-MS	Reproductive toxicity Substance	117-81-7	204-211-0	0.003
5	Hexabromocyclodo decane and its non-enantiomers	Refer to EPA 3540C:1996, GC-MS	Persistent, Bioaccumulative, and Toxic Substances	25637-99-4/ 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	247-148-4/ 221-695-9	0.005
6	4,4'-diaminodiphenylmethane ane	Reference: EN 14362-1:2017 GC-MS	Carcinogenic substance	101-77-9	202-974-4	0.005
7	C10-13 short-chain chlorinated paraffins	Refer to EPA 3540C:1996, GC-MS	Persistent, bioaccumulative, and toxic substances; highly persistent and highly bioaccumulative substances	85535-84-8	287-476-5	0.01
8	Xylene musk	Reference: EPA 3540C:1996, GC-MS	High persistence and high bioaccumulative substance	81-15-2	201-329-4	0.005
9	Triethyl arsenate (1)	See EPA 3052:1996, ICP-OES	Carcinogenic substance	15606-95-8	427-700-2	0.005
10	Bis(tributylstannyl) oxide	Refer to DIN EN ISO 17353:2005, GC-MS	Persistence, Bioaccumulation, and Toxicity Substance	56-35-9	200-268-0	0.01
11	Cobalt dichloride (1)	Reference: EPA 3052:1996/EN 14582:2007, ICP-OES/IC	Carcinogenic substance; reproductive toxicity Substances	7646-79-9	231-589-4	0.01
12	Arsenic(V) oxide (1)	See EPA 3052:1996, ICP-OES	Carcinogenic substance	1303-28-2	215-116-9	0.01
13	Arsenic(III) oxide (1)	See EPA 3052:1996, ICP-OES	Carcinogenic substance	1327-53-3	215-481-4	0.01
14	Sodium dichromate (1)	See EPA 3052:1996/ EPA 3060A:1996/EPA 9056A:2007, ICP-OES/UV-Vis	Carcinogen; Teratogen; Reproductive toxicant Substance	7789-12-0, 10588-01-9	234-190-3	0.01
15	Lead hydrogen arsenate (1)	Reference: EPA 3052:1996, ICP-OES	Carcinogen; Reproductive Toxicity Substance	7784-40-9	232-064-2	0.01
16	2,4-Dinitrotoluene	In-house method, GC-MS	Carcinogenic substance	121-14-2	204-450-0	0.01

17	anthracene oil [2]	In-house method, GC-MS	Carcinogenic substances; persistent, bioaccumulative, and toxic substances; highly persistent and highly bioaccumulative substances	90640-80-5	292-602-7	0.050
18	Anthracene oil, anthracene slurry, light oil [2]	In-house method, GC-MS	Carcinogenic substances; teratogenic substances; highly persistent and highly bio accumulative substances	91995-17-4	295-278-5	0.050

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Reference Methods:

No.	Substance Name	Reference Method and Instrumentation	Substance Category	CAS Number	EC No.	Detection Limit
19	Anthracene oil, anthracene paste, anthracene fraction (2)	In-house method, GC-MS	Carcinogenic substances; teratogenic substances; highly persistent and highly bio accumulative substances	91995-15-2	295-275-9	0.050
20	Anthracene oil, low in anthracene (2)	In-house method, GC-MS	Carcinogenic substance; teratogenic substance; highly persistent and highly bioaccumulative substance	90640-82-7	292-604-8	0.050
21	Anthracene oil, anthracene paste (2)	In-house method, GC-MS	Carcinogenic substances; Teratogenic substances; Highly persistent and highly bio accumulative substances	90640-81-6	292-603-2	0.050
22	Diisobutyl phthalate	Reference EPA 8061A:1996, GC-MS	Reproductive toxicity Substance	84-69-5	201-553-2	0.003
23	lead chromate (3)	Refer to EPA 3052:1996/EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen; Reproductive toxicant	7758-97-6	231-846-0	0.005
24	Molybdenum-Chromium Red (C.I. Pigment Red 104) (3)			12656-85-8	235-759-9	0.005
25	Lead Chromate Yellow (C.I. Pigment Yellow 34 (3)			1344-37-2	215-693-7	0.005
26	Tris(2-chloroethyl) phosphate	In-house method, GC-MS	Reproductive toxicity Substance	115-96-8	204-118-5	0.005
27	Coal tar pitch, high-temperature (2)	In-house method, GC-MS	Persistent, bioaccumulative, and toxic substances; carcinogenic substances; highly persistent and highly bioaccumulative substances	65996-93-2	266-028-2	0.050
28	Acrylamide	In-house method, HPLC	Carcinogenic substances; teratogenic teratogenic substance	79-06-1	201-173-7	0.005
29	Trichloroethylene	See EPA 5021:1996, GC-MS	Carcinogen	79-01-6	201-167-4	0.01
30	boric acid (1)	In-house method, ICP-OES	Reproductive Toxicants	10043-35-3 11113-50-1	235-139-2/ 234-343-4	0.01
31	Anhydrous sodium tetraborate (1)	In-house method, ICP-OES	Reproductive Toxicants	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.01
32	Sodium tetraborate hydrate (1)	In-house method, ICP-OES	Reproductive toxicity Substance	12267-73-1	235-541-3	0.01
33	Sodium chromate (1)	In-house method, UV-Vis	Carcinogen; Teratogen; Reproductive toxicant	7775-11-3	231-889-5	0.01
34	Potassium chromate (1)	In-house method, UV-Vis	Carcinogenic substance; Teratogen	7789-00-6	232-140-5	0.01

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35	Potassium dichromate (1)	In-house method, UV-Vis	Carcinogen; Teratogen; Reproductive toxicant Substance	7778-50-9	231-906-6	0.01
36	Ammonium dichromate (1)	In-house method, UV-Vis	Carcinogen; Teratogen; Reproductive toxicant	7789-09-5	232-143-1	0.01

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Reference Methods:

No.	Substance Name	Reference Method and Instrumentation	Substance Category	CAS Number	EC No.	Detection Limit
37	Cobalt sulfate (1)	In-house method, ICP-OES/IC	Carcinogenic substances; reproductive toxicity Substances	10124-43-3	235-334-2	0.01
38	Cobalt nitrate (1)	In-house method, ICP-OES/IC	Carcinogenic substance; Reproductive toxicity Substance	10141-05-6	235-402-1	0.01
39	Cobalt carbonate (1)	In-house method, ICP-OES/IC	Carcinogenic substance; Reproductive toxicity Substance	513-79-1	208-169-4	0.01
40	Cobalt acetate (1)	In-house method, ICP-OES/IC	Carcinogenic substance; Reproductive toxicity Substance	71-48-7	200-755-8	0.01
41	2-Methoxyethanol	In-house method, GC-MS	Reproductive toxicity Substance	109-86-4	203-713-7	0.01
42	2-Ethoxyethanol	In-house method, GC-MS	Reproductive toxicity Substance	110-80-5	203-804-1	0.01
43	Chromium(III) oxide (1)	In-house method, UV-Vis	Carcinogen; Teratogen	1333-82-0	215-607-8	0.01
44	Acids derived from chromium(III) oxide and its oligomers (1) — Chromic acid	In-house method, ICP-OES, UV-Vis	Carcinogenic substance	7738-94-5	231-801-5	0.01
	Acids derived from chromium(III) oxide and its oligomers (1) — Dichromic acid			13530-68-2	236-881-5	0.01
	Acids derived from chromium(III) oxide and its oligomers (1) — Chromic Acid and Dichromium Oligomers of Chromic Acid					0.01
45	Ethyl acetate of ethylene glycol ether	In-house method, GC-MS	Reproductive toxicity Substance	111-15-9	203-839-2	0.01
46	Strontium chromate (1)	Refer to EPA 3052:1996/EPA 6010D:2018, ICP-OES	Carcinogenic substance	7789-06-2	232-142-6	0.01
47	1,2-Benzenedicarboxylic acid—di(C7–11 branched -linear) alkyl (alcohol) esters (2)	Refer to EPA 8061A:1996, GC-MS	Reproductive toxicity Substance	68515-42-4	271-084-6	0.01
48	Hydrazine, also known as hydrazide	In-house method, UV-Vis	Carcinogenic substance	7803-57-8 302-01-2	206-114-9	0.01
49	1-Methyl-2-pyrrolidone	Reference EPA 8270E:2018, GC-MS	Reproductive toxicity Substance	872-50-4	212-828-1	0.01
50	1,2,3-Trichloropropane	Reference: EPA 5021:1996, GC-MS	Carcinogen; Reproductive Toxicity Substance	96-18-4	202-486-1	0.01
51	Phthalic acid di(C6-8 branched and linear alkyl) esters, (rich in)C7 (2)	Reference EPA 8061A:1996, GC-MS	Reproductive toxicant	71888-89-6	276-158-1	0.01
52	Chromium(III) chromate (1)	Refer to EPA 3052:1996/EPA 6010D:2018, ICP-OES	Carcinogenic substance	24613-89-6	246-356-2	0.01
53	Potassium zinc chromate hydroxide (1)	Refer to EPA 3052:1996/EPA 6010D:2018, ICP-OES	Carcinogenic substance	11103-86-9	234-329-8	0.01

54	Zinc Yellow (C.I. Pigment Yellow 36) (3)	Refer to EPA 3052:1996/EPA 6010D:2018, ICP-OES	Carcinogenic substance	49663-84-5	256-418-0	0.01
55	Aluminosilicate refractory ceramic fiber (3)	Refer to EPA 3052:1996/EPA 6010D:2018, ICP-OES	Carcinogenic substance	——	——	0.01

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Reference Methods:

No.	Substance Name	Reference Method and Instrumentation	Substance Classification	CAS Number	EC No.	Detection Limit
56	Zirconia-Alumina-Silicate Refractory Ceramics Fibers (3) Ceramic	Refer to EPA 3052:1996/EPA 6010D:2018, ICP-OES	Carcinogenic Substances	——	——	0.01
57	Formaldehyde-aniline copolymer (3)	In-house method, FTIR	Carcinogenic Substances	25214-70-4	500-036-1	0.05
58	Dimethoxyethyl phthalate	Reference EPA 8061A:1996, GC-MS	Reproductive toxicity Substance	117-82-8	204-212-6	0.003
59	o-Aminobenzyl alcohol	Reference: EN 14362-1:2017 GC-MS	Carcinogenic Substances	90-04-0	201-963-1	0.005
60	4-tert-octylphenol	In-house method, GC-MS	Equivalent of concern	140-66-9	205-426-2	0.005
61	1,2-Dichloroethane	See EPA 5021:1996, GC-MS	Carcinogenic Substances	107-06-2	203-458-1	0.01
62	Diethylene glycol dimethyl ether	Refer to EPA 8270E:2018, GC-MS	Reproductive toxicity Substance	111-96-6	203-924-4	0.01
63	Arsenic acid (1)	Refer to EPA 3052:1996/EPA 6010D:2018, ICP-OES	Carcinogenic Substances	7778-39-4	231-901-9	0.01
64	Calcium arsenate (1)	Refer to EPA 3052:1996/EPA 6010D:2018, ICP-OES	Carcinogenic Substances	7778-44-1	231-904-5	0.01
65	Lead arsenate (1)	Refer to EPA 3052:1996/EPA 6010D:2018, ICP-OES	Carcinogenic substance; reproductive toxicity Substance	3687-31-8	222-979-5	0.01
66	N,N-Dimethylacetamide	Reference EPA 3550C:2007 GC-MS	Reproductive toxicity Substance	127-19-5	204-826-4	0.01
67	Phenolphthalein	In-house method, HPLC	Carcinogenic Substances	77-09-8	201-004-7	0.01
68	4,4'-Methylenebis(2-chloroaniline)	Reference: EN 14362-1:2017 GC-MS	Carcinogenic Substances	101-14-4	202-918-9	0.005
69	Lead azide (1)	Refer to EPA 3052:1996/EPA 6010D:2018, ICP-OES	Reproductive Toxicant	13424-46-9	236-542-1	0.01
70	Lead 2,4,6-trinitrohydroquinone (1)	Refer to EPA 3052:1996/EPA 6010D:2018, ICP-OES	Reproductive Toxicant	15245-44-0	239-290-0	0.01
71	Lead picrate (1)	See EPA 3052:1996/ EPA 6010D:2018, ICP-OES	Reproductive Toxicant	6477-64-1	229-335-2	0.01
72	1,2-Bis(2-methoxyethoxyethane) (triethylene glycol dimethyl ether)	Refer to EPA 8270E:2018, GC-MS	Reproductive toxicity Substances	112-49-2	203-977-3	0.01
73	Ethylene glycol dimethyl ether	Refer to EPA 8270E:2018, GC-MS	Reproductive toxicity Substance	110-71-4	203-794-9	0.01
74	Boron trioxide (1)	See EPA 3052:1996/ EPA 6010D:2018, ICP-OES	Reproductive Toxicant	1303-86-2	215-125-8	0.01

75	Formamide	Refer to EPA 8270E:2018, GC-MS	Reproductive toxicity Substance	75-12-7	200-842-0	0.01
76	Lead methylsulfonate (1)	Refer to EPA 3052:1996/EPA 6010D:2018, ICP-OES	Reproductive Toxicant	17570-76-2	401-750-5	0.01
77	Triglycidyl isocyanurate (TGIC)	In-house method, GC-MS	Teratogen	2451-62-9	219-514-3	0.01

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Reference Methods:

No.	Substance Name	Reference Method and Instrumentation	Substance Category	CAS Number	EC No.	Detection Limit
78	1,3,5-tri-[(2S and 2R) -2,3-epoxypropyl]-1,3,5 triazine-2,4,6-(1H,3H,5H)trione (4)	Reference: EPA 8270E:2018, GC-MS	Teratogens	59653-74-6	423-400-0	0.01
79	4,4'-Di(N,N-dimethylamino)diphenyl ketone (tetraethyl Miesch's ketone)	Reference: EPA 8270E:2018, GC-MS	Carcinogen	90-94-8	202-027-5	0.01
80	N,N,N',N'-tetramethyl-4,4'-diaminodiphenylmethane (Miescher's base)	Reference: EPA 8270E:2018, GC-MS	Carcinogen	101-61-1	202-959-2	0.01
81	Crystal Violet	In-house method, HPLC	Carcinogen	548-62-9	208-953-6	0.01
82	Basic Blue	In-house method, HPLC	Carcinogen	2580-56-5	219-943-6	0.01
83	α,α-Bis[4-(dimethylamino)phenyl]-4-phenylamino-1-naphthalene Methanol (Solvent Blue 4)	In-house method, HPLC	Carcinogen	6786-83-0	229-851-8	0.01
84	α,α-Di[(dimethylamino)phenyl]]-4-methylaminobenzyl alcohol	In-house method, HPLC	Carcinogen	561-41-1	209-218-2	0.01
85	Decabromodiphenyl ether	See IEC 62321-6 Edition 1.0:2015, GC-MS	Persistent, bioaccumulative, and toxic substances; Highly Persistent and Highly bioaccumulative substances	1163-19-5	214-604-9	0.005
86	Perfluorotridecanoic acid	Reference EPA 3550C:2007 LC-MS/MS	High persistence and high bioaccumulative substances	72629-94-8	276-745-2	0.005
87	Perfluorododecanoic acid		High persistence and high bioaccumulative substance	307-55-1	206-203-2	0.005
88	Perfluoroundecanoic acid		High persistence and high bioaccumulative substance	2058-94-8	218-165-4	0.005
89	Perfluoro-tetradecanoic acid		High persistence and high bioaccumulative substance	376-06-7	206-803-4	0.005
90	Phenoxyethanol, ethoxy - including well-defined substances as well as UVCB substances, polymeric and homologs (2)	Reference EPA 3550C:2007, HPLC	Equivalent concerns	—	—	0.01
91	Substances containing a 9-carbon alkyl chain of nonylphenol that is branched or linear and covalently bound to phenol, including UVCB substances and any substances containing, individually or in combination, clearly defined isomers, either individually or in combination (2)		Equivalent concerns	—	—	0.01
92	Azodicarbonamide		Equivalent concerns	123-77-3	204-650-8	0.005
93	Hexahydrophthalic anhydride	Reference EPA 3540C:1996	Equivalent concerns	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	0.01

94	Methyl hexahydrophthalic anhydride, 4-methyl hexahydrophthalic anhydride, methyl hexahydrophthalic anhydride, 3-methyl hexahydrophthalic anhydride	GC-MS	Equivalent concerns	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.01
95	Methoxyacetic acid	Reference EPA 3550C:2007 GC-MS	Reproductive toxicant; equivalent threshold Note	625-45-6	210-894-6	0.01

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Reference Methods:

No.	Substance Name	Reference Method and Instrumentation	Substance Category	CAS Number	EC No.	Detection Limit
96	Branched and linear 1,2-benzenedicarboxylic acid Dipentyl ester	Reference: EPA 8061A:1996, GC-MS	Reproductive toxicity Substance	84777-06-0	284-032-2	0.01
97	Diisopentyl phthalate		Reproductive toxicity Substance	605-50-5	210-088-4	0.003
98	n-Pentyl isophthalate pentyl ester		Reproductive toxicity Substance	776297-69-9	—	0.003
99	Ethylene glycol diethyl ether	Reference: EPA 3550C:2007 GC-MS	Reproductive toxicity Substance	629-14-1	211-076-1	0.01
100	N,N-Dimethylformamide	Reference EPA 3550C:2007 GC-MS	Reproductive toxicity Substance	68-12-2	200-679-5	0.005
101	Dibutyltin dichloride	See DIN EN ISO 17353:2005, GC-MS	Reproductive toxicity Substance	683-18-1	211-670-0	0.01
102	Lead acetate basic (1)	Refer to EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018, ICP-OES	Reproductive toxicity Substance	51404-69-4	257-175-3	0.01
103	Lead carbonate basic (1)		Reproductive toxicity Substance	1319-46-6	215-290-6	0.01
104	Lead(II) sulfate (1)		Reproductive toxicity Substance	12036-76-9	234-853-7	0.01
105	Lead dibasic phthalate (1)	See EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018 / EPA 3550C:2007, ICP-OES & GC-MS	Reproductive toxicity Substance	69011-06-9	273-688-5	0.01
106	Bis(octadecanoato)dioxotri-lead(1)		Reproductive toxicity Substance	12578-12-0	235-702-8	0.01
107	Lead salts of C16-18 fatty acids (1)		Reproductive toxicity Substance	91031-62-8	292-966-7	0.01
108	Lead fluoroborate (1)	See EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018, ICP-OES	Reproductive Toxicant	13814-96-5	237-486-0	0.01
109	Aminocyanide lead salt (1)			20837-86-9	244-073-9	0.01
110	Lead nitrate (1)			10099-74-8	235-245-9	0.01
111	Lead oxide (1)			1317-36-8	215-267-0	0.01
112	Trilead tetroxide (1)			1314-41-6	215-235-6	0.01
113	Lead titanate (1)			12060-00-3	235-038-9	0.01
114	Lead zirconate titanate (1)			12626-81-2	235-727-4	0.01
115	Complex of lead oxide and lead sulfate (3)			12065-90-6	235-067-7	0.01
116	Pigment Yellow 41 (3)			8012-00-8	232-382-1	0.01
117	Lead-doped silicate-barium salt (3)			68784-75-8	272-271-5	0.01
118	Lead silicate (1)			11120-22-2	234-363-3	0.01
119	Lead(II) sulfite (1)			62229-08-7	263-467-1	0.01
120	Tetraethyl lead (1)	See EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018/ EPA 3550C:2007, ICP-OES & GC-MS	Reproductive Toxicant	78-00-2	201-075-4	0.01
121	Tribasic lead sulfate (1)	See EPA 3050B:1996/ EPA 3052:1996/ EPA 6010D:2018, ICP-OES	Reproductive Toxicant	12202-17-4	235-380-9	0.01
122	Lead(IV) phosphate (1)			12141-20-7	235-252-2	0.01
123	Furan	Reference: EPA 5021:1996, GC-MS	Carcinogenic substances	110-00-9	203-727-3	0.01
124	Propylene oxide		Carcinogen; Teratogen	75-56-9	200-879-2	0.01

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Reference Methods:

No.	Substance Name	Reference Method and Instrumentation	Substance Category	CAS Number	EC No.	Detection Limit
125	Diethyl sulfate	Reference: EPA 3550C:2007 HPLC	Carcinogens; Teratogenic substance	64-67-5	200-589-6	0.01
126	Dimethyl sulfate		Carcinogen	77-78-1	201-058-1	0.01
127	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	Reference EPA 3550C:2007 GC-MS	Reproductive toxicity Substance	143860-04-2	421-150-7	0.01
128	Dilephol	Reference EPA 3550C:2007 HPLC	Reproductive toxicity Substance	88-85-7	201-861-7	0.01
129	4,4'-diamino-3,3'-dimethyl diphenylmethane	Reference: EN 14362-1:2017 GC-MS	Carcinogen	838-88-0	212-658-8	0.005
130	4,4'-Diaminodiphenyl Ether		Carcinogen; Teratogen	101-80-4	202-977-0	0.005
131	4-Aminoazobenzene	In accordance with EN 14362-1&3:2017, GC-MS	Carcinogen	60-09-3	200-453-6	0.005
132	2,4-Diaminotoluene	Reference: EN 14362-1:2017 GC-MS	Carcinogen	95-80-7	202-453-1	0.005
133	2-Methoxy-5-methylaniline		Carcinogen	120-71-8	204-419-1	0.005
134	4-Aminobiphenyl		Carcinogen	92-67-1	202-177-1	0.005
135	o-Aminotoluene		Carcinogen	97-56-3	202-591-2	0.005
136	o-Methylaniline		Carcinogen	95-53-4	202-429-0	0.005
137	N-Methylacetamide	Reference EPA 3550C:2007 GC-MS	Reproductive toxicity Substance	79-16-3	201-182-6	0.01
138	Bromo-n-propane	See EPA 5021:1996, GC-MS	Reproductive toxicity Substance	106-94-5	203-445-0	0.01
139	Cadmium	Refer to EPA 3052:1996, ICP-OES	Carcinogenic substance; Equivalent of Concern	7440-43-9	231-152-8	0.005
140	cadmium oxide (1)	Refer to EPA 3052:1996, ICP-OES	Carcinogenic substance; Equivalent of concern	1306-19-0	215-146-2	0.005
141	Di-n-pentyl phthalate	Reference EPA 8061A:1996, GC-MS	Reproductive toxicity Substance	131-18-0	205-017-9	0.003
142	Nonylphenol polyoxyethylene ethers (branched and linear) Branched and linear ethoxylated nonylphenols, including all individual isomers containing a 9-carbon alkyl chain and all containing branched and linear 9-carbon alkyl chains UVCB substances (2)	Reference: EPA 3550C:2007 HPLC	Equivalent of Concern	——	——	0.01
143	Ammonium perfluorooctanoate	Reference EPA 3550C:2007, LC-MS/MS	Substances toxic to the reproductive system; persistent, bioaccumulative, and toxic substances	3825-26-1	223-320-4	0.005
144	Perfluorooctanoic acid	Reference EPA 3550C:2007, LC-MS/MS	Substances toxic to the reproductive system; persistent, bioaccumulative, and toxic substances	335-67-1	206-397-9	0.005

145	cadmium sulfide [1]	EPA 3052:1996, ICP-OES	Carcinogenic substance; Equivalent of concern	1306-23-6	215-147-8	0.005
146	C.I. Direct Black 38	In-house method, HPLC	Carcinogen	1937-37-7	217-710-3	0.01
147	Dihexyl phthalate	Reference EPA 8061A:1996, GC-MS	Reproductive toxicity Substance	84-75-3	201-559-5	0.003

(SVHC)

Reference Methods:

No.	Substance Name	Reference Method and Instrumentation	Substance Category	CAS Number	EC No.	Detection Limit
148	2-Mercaptoimidazoline; 2-Imidazol thione; ethylthiourea	In-house method, GC-MS	Reproductive toxicity Substance	96-45-7	202-506-9	0.01
149	Tris(xylene) phosphate	Refer to EPA 8270E:2018, GC-MS	Reproductive toxicity Substance	25155-23-1	246-677-8	0.05
150	C.I. Direct Red 28 (C.I. Congo Red)	In-house method, HPLC	Carcinogenic substances	573-58-0	209-358-4	0.01
151	Lead(II) acetate (1)	EPA 3052:1996, ICP-OES	Reproductive toxicant	301-04-2	206-104-4	0.01
152	Dihexyl phthalate (branched and linear)	Reference: EPA 8061A:1996, GC-MS	Reproductive toxicant	68515-50-4	271-093-5	0.003
153	Sodium perborate, sodium perborate salt (1)	Refer to EPA 3052:1996, ICP-OES	Reproductive toxicant	—	239-172-9 234-390-0	0.01
154	Sodium perborate (1)	Refer to EPA 3052:1996, ICP-OES	Reproductive toxicant	7632-04-4	231-556-4	0.01
155	cadmium chloride (1)	Refer to EPA 3052:1996, ICP-OES	Carcinogenic substances; teratogenic substances; substances toxic to the reproductive system; Equivalent of Concern	10108-64-2	235-296-7	0.01
156	2-(2'-hydroxy-3',5'-di-tert butylphenyl)-benzotriazole (UV-320)	Reference: EPA 3540C:1996 GC-MS	Persistent, Bioaccumulative, and Toxic Substances; Highly Persistent and Highly Bioaccumulative substances	3846-71-7	223-346-6	0.01
157	2-(2H-benzotriazole-2-)-4,6-di-tert-pentylphenol (UV-328)	Reference: EPA 3540C:1996 GC-MS	Persistent, Bioaccumulative, and Toxic (PBT) Substances; Highly Persistent and Highly Bioaccumulative Substances	25973-55-1	247-384-8	0.01
158	Di-n-octyl-bis(mercaptoacetic acid 2-ethylhexyl ester) tin (DOTE)(2)	Reference: EPA 3052:1996, ICP-OES	Reproductive toxicant	15571-58-1	239-622-4	0.05
159	Di-n-octyl-bis(2-ethylhexyl thioglycolate) (DOTE) and tri(2-ethylhexyl thioglycolate) octyl tin (MOTE reactant) (2)(3)	Reference: EPA 3052:1996, ICP-OES	Reproductive toxicant	—	—	0.05
160	Cadmium fluoride (1)	Reference: EPA 3052:1996, ICP-OES	Carcinogenic substances; teratogenic substances; substances toxic to the reproductive system; Equivalent of Concern	7790-79-6	232-222-0	0.01
161	Cadmium sulfate (1)	Reference: EPA 3052:1996, ICP-OES	Carcinogenic; Teratogenic; Reproductive toxicant; Equivalent of Concern	10124-36-4 31119-53-6	235-331-6	0.01

162	1,2-Phthalic acid di(C6-C10) alkyl esters; 1,2-Phthalic acid (decyl, hexyl, octyl) ester mixture , with a dihexyl phthalate ester content ≥ 0.3% (2)	Reference: EPA 8061A:1996, GC-MS	Reproductive toxicant	68515-51-5 68648-93-1	271-094-0 272-013-1	0.01

(SVHC)

Reference Methods:

No.	Substance Name	Reference Method and Instrumentation	Substance Category	CAS Number	EC No.	Detection Limit
163	5-sec-butyl-2-(2,4-dimethyl cyclobut-3-en-1-yl)-5-Methyl-1,3-dioxane[1] and 5-sec-butyl-2-(4,6-dimethyl cyclohex-3-en-1-yl)-5-methyl-1,3-dioxane[2] (a calalaldehyde isomers) (2)	Reference EPA 8270E:2018, GC-MS	Persistent and highly bioaccumulative substances	—	—	0.01
164	1,3-Propanesulfonolactone	In-house method, GC-MS	Carcinogen	1120-71-4	214-317-9	0.01
165	2-(2'-hydroxy-3',5'-di-tert-butyl phenyl)-5-chlorobenzotriazole azole (UV327)	Reference: EPA 3540C:1996 GC-MS	Persistent and Bioaccumulative Substance	3864-99-1	223-383-8	0.01
166	2-(2'-hydroxy-3'-isobutyl -5'-tert-butylphenyl)benzotriazole azole (UV350)	Reference: EPA 3540C:1996 GC-MS	Persistent and Bioaccumulative Substance	36437-37-3	253-037-1	0.01
167	Nitrobenzene	Refer to EPA 8270E:2018, GC-MS	Reproductive toxicant	98-95-3	202-716-0	0.01
168	Perfluoro-9-noic acid and its sodium salts and ammonium salts (2)	Refer to EPA 3550C:2007 LC-MS/MS	Reproductive toxicants; Persistent, bioaccumulative, toxic substances	375-95-1 21049-39-8 4149-60-4	206-801-3	0.005
169	Benzo(a)pyrene	Reference: EPA 3540C:1996 GC-MS	Carcinogenicity, mutagenicity, reproductive toxicity, persistence, bioaccumulation, and Toxicity	50-32-8	200-028-5	0.050
170	4-Heptylphenol, branched and linear (3)	In-house method, HPLC	Equivalent of concern	1987-50-4 Straight-chain	217-862-0 Linear	0.004
171	Perfluorodecanoic acid, sodium perfluorodecanoate, and ammonium perfluorodecanoate (3)	In-house method, LC-MS/MS	Reproductive toxicants; persistent, bioaccumulative and toxic substances	335-76-2 3830-45-3 3108-42-7	206-400-3 –221-470-5	0.005
172	p-tert-amylphenol	In-house method, HPLC	Equivalent of concern	80-46-6	201-280-9	0.004
173	4,4'-Isopropylidene bis(bisphenol A)	In-house method, HPLC	Reproductive toxicants, endocrine disruptors disruptors	80-05-7	201-245-8	0.004
174	Perfluorohexylsulfonic acid derivatives	In-house method, UPLC-MS/MS	Persistent and Bioaccumulative Substance	355-46-4	206-587-1	0.005
175	Declon [including all trans and cis isomers and their mixtures]]	In-house method, GC-MS	Persistent and highly bioaccumulative substances	13560-89-9 135821-74-8 135821-03-3	236-948-9 —— ——	0.0004
176	Benzo[a]anthracene	In-house method, GC-MS	Carcinogenic substances; persistent, bioaccumulative, and toxic substances; highly persistent and highly bio accumulative substances	56-55-3	200-280-6	0.05
177	菌			218-01-9	205-923-4	0.05
178	Cadmium nitrate (1)	Reference: EPA 3052:1996	Carcinogenic,	10325-94-7	235-710-6	0.01

179	cadmium carbonate (1)	ICP-OES	Mutagenic; causes specific organ toxicity following repeated exposure	513-78-0	208-168-9	0.01
180	Cadmium hydroxide (1)			21041-95-2	244-168-5	0.01

(**SVHC**)

Reference Methods:

No.	Substance Name	Reference Method and Instrumentation	Substance Category	CAS Number	EC No.	Detection Limit
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde, and the branched-chain and linear-chain forms of 4-heptylphenol (RP-HP) [4-Heptylphenol, branched and linear chain content ≥ 0.1% w/w](2)	In-house method, GC-MS	Endocrine Disruptors — Environmental	——	——	0.04
182	Benzo(g,h,i)perylene	In-house method, GC-MS	Carcinogenic substances; persistent, bioaccumulative, and toxic substances; highly persistent and highly bioaccumulative substances	191-24-2	205-883-8	0.050
183	Decamethylcyclopentasiloxane (D5)	In-house method, GC-MS	Carcinogenic substances; persistent, bioaccumulative, and toxic substances; highly persistent and highly bioaccumulative substances	541-02-6	208-764-9	0.01
184	Sodium borate (1)	See EPA 3052:1996, ICP-OES	Reproductive toxicity Substance	12008-41-2	234-541-0	0.01
185	Dodecamethylcyclhexasiloxane (D6)	In-house method, GC-MS	Carcinogenic substances; persistent, bioaccumulative, and toxic substances; highly persistent and highly bioaccumulative substances	540-97-6	208-762-8	0.01
186	Ethylenediamine	In-house method, GC-MS	Equivalent of Concern	107-15-3	203-468-6	0.015
187	Lead	Reference: EPA 3052:1996/EPA 6010D:2018, ICP-OES	Reproductive Toxicants	7439-92-1	231-100-4	0.01
188	Octamethylcyclotetrasiloxane (D4)	In-house method, GC-MS	Carcinogenic substance; persistent, bioaccumulative, and toxic substance; highly persistent and highly bioaccumulative substance	556-67-2	209-136-7	0.01
189	Hydrogenated triphenyl	In-house method, GC-MS	Highly persistent, bio biocumulative substance	61788-32-7	262-967-7	0.001
190	1,2,4-Benzenetricarboxylic acid 1,2-anhydride (Terephthalic anhydride) (TMA	In-house method, LC	Equivalent of Concern	552-30-7	209-008-0	0.01
191	Dicyclohexyl phthalate	In-house method, GC-MS	Reproductive toxicity Substance	84-61-7	201-545-9	0.003
192	4,4'-(1,3-dimethylbutyl) diphenol	In-house method, LC	Reproductive toxicity	6807-17-6	401-720-1	0.004

193	Benz(k)fluoranthene	In-house method, GC-MS	Carcinogenic substance; persistent, bioaccumulative, and toxic substance; highly persistent and highly bioaccumulative substance	207-08-9	205-916-6	0.05
194	Fluoranthene	In-house method, GC-MS	Persistent and bioaccumulative toxicity; substances of very high persistence and bioaccumulation	206-44-0	205-912-4	0.05

(SVHC)

Reference Methods:

No.	Substance Name	Reference Method and Instrumentation	Substance Category	CAS Number	EC No.	Detection Limit
195	Naphthalene	In-house method, GC-MS	Highly persistent and bio biocumulative substances	85-01-8	201-581-5	0.05
196	Pyrene	In-house method, GC-MS	Persistent and bioaccumulative toxicity; highly persistent and bioaccumulative Substances	129-00-0	204-927-3	0.05
197	1,7,7-trimethyl-3-(phenyl methylene)bicyclo[2.2.1]heptan- -2-one or 3-benzylidene camphor	In-house method, GC-MS	Endocrine disruptor	15087-24-8	239-139-9	0.0015
198	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid and its salts and acyl halides (including its isomers and mixtures) (2)	In-house method, UPLC-MS/MS	Equivalent concerns	—	—	0.0050
199	Ethyl 2-methoxyacetate	In-house method, GC-MS	Reproductive toxicity	110-49-6	203-772-9	0.00008
200	(4-nonylphenyl) phosphite (≥0.1% 4-nonylphenyl, both linear and branched) (2)	In-house method, HPLC-FLD	Endocrine-disrupting properties—environmental	—	—	0.0050
201	4-tert-Butylphenol	In-house method, HPLC-FLD	Equivalent concerns	98-54-4	202-679-0	0.012
202	2-Benzyl-2-dimethylamino -1-(4-morpholinophenyl)butanone (Photoinitiator 369)	In-house method, HPLC	Reproductive toxicant	119313-12-1	404-360-3	0.00075
203	2-Methyl-1-(4-methylthiobenzene)-2-morpholinyl-1-propanone (Photoinitiator 907)	In-house method, HPLC	Reproductive toxicant	71868-10-5	400-600-6	0.00075
204	Diisobutyl phthalate	In-house method, GC-MS	Reproductive toxicity Substance	71850-09-4	276-090-2	0.003
205	Perfluorobutanesulfonic acid (PFBS) and its salts	In-house method, UPLC-MS/MS	High persistence and high bioaccumulation Matter	—	—	0.005
206	1-Vinylimidazole	In-house method, HPLC	Reproductive toxicant	1072-63-5	214-012-0	0.004
207	2-Methylimidazole	In-house method, HPLC	Reproductive toxicity Substance	693-98-1	211-765-7	0.004
208	Butyl 4-hydroxybenzoate	In-house method, GC-MS	Endocrine disruptor	94-26-8	202-318-7	0.003
209	Diacetylacetonyldibutyltin	See EPA 3052:1996, ICP-OES	Reproductive toxicant	22673-19-4	245-152-0	0.01
210	Tetraglycol dimethyl ether	Reference EPA 3550C:2007 GC-MS	Reproductive toxicity Substance	143-24-8	205-594-7	0.01
211	Dioctyltin dilaurate, tin alkyl compounds, dioctyl-, bis(cocoatoxy) derivatives, and any other tin alkyl compounds, dioctyl-, bis(fatty acyloxy) derivatives Here C12 represents the number of carbon atoms in the fatty acyloxy group (1)	In-house method, ICP-OES	Reproductive	—	—	0.01

QINGDAO PONY TESTING CO., LTD. 青岛谱尼测试有限公司 检验检测专用章

	Tin(II) silane, di-octyl-, bis(cocoyloxy) derivative (1) (CAS No.: 91648-39-4 EC No.: 293-901-5)		toxicity			
	Dioctyltin dilaurate (1) (CAS No.: 3648-18-8 EC No.: 222-883-3)					

(**SVHC**)

Reference Methods:

No.	Substance Name	Reference Methods and Instruments	Substance Classification	CAS Number	EC Number	Detection Limit
212	1,4-Dioxane (dioxane)	Reference: GB/T 30932-2014, GC-MS	Persistent, bioaccumulative, and toxic (PBT); highly persistent and bioaccumulative substances	123-91-1	204-661-8	0.01
213	Dibromo-neopentanediol	In-house method, GC-MS	Carcinogen	3296-90-0	221-967-7	0.005
	Tribromo-neopentanol			36483-57-5/ 1522-92-5	253-057-0	0.005
	2,3-Dibromo-1-propanol			96-13-9	202-480-9	0.005
214	2-(4-tert-Butylbenzyl)propanal and its stereoisomers	In-house method, GC-MS	Reproductive toxicity Substance	80-54-6	—	0.005
215	2,2-Bis(4-hydroxyphenyl)butane (bisphenol B)	In-house method, HPLC	Endocrine-disrupting properties Properties—Environmental	77-40-7	201-025-1	0.005
216	Glutaraldehyde	Reference GB/T 37640-2019, HPLC	Respiratory sensitization properties	111-30-8	203-856-5	0.002
217	Medium-chain chlorinated paraffin (MCCP) (UVCB substance: composed of ≥ 80% straight-chain chlorinated) (2)	In-house method, GC-MS	Persistent and bioaccumulative toxicity; substances of very high persistence and bioaccumulation	—	—	0.01
218	sodium borate (1)	In-house method, ICP-OES	Reproductive toxicity Substance	13840-56-7	237-560-2	0.01
219	Alkylphenol compounds with carbon chain lengths predominantly of C12, either straight-chain or branched (primarily in the para position) including any isomers and combinations thereof (PDDP)	In-house method, HPLC	Reproductive toxicity, endocrine-disrupting properties	27193-86-8	—	0.009
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]hept-2-one, including any individual isomers and/or a combination thereof (4-MBC)	In-house method, GC-MS	Endocrine-disrupting properties—human health	—	—	0.01
221	2,2'-Methylenebis-(4-methyl-6-tert-butylphenol) (DBMC)	In-house method, GC-MS	Reproductive toxicity	119-47-1	204-327-1	0.01
222	S-(Tricyclo[5.2.1.0^{2,6}]dec--3-ene-8(or 9)-yl)O-(is propyl or isobutyl or 2-ethylhexyl)O-(isopropyl or isobutyl or 2-ethylhexyl) dithiophosphate (1)	In-house methods, GC-MS & ICP-OES	Persistence, Bioaccumulation , and Toxicity	255881-94-8	401-850-9	0.05
223	Vinyl-tri(2-methoxyethyl oxy)silane	In-house method, GC-MS	Reproductive toxicity	1067-53-4	213-934-0	0.01
224	N-Hydroxymethylacrylamide	EPA 3550C:2007, HPLC	Carcinogenicity, Mutagenici ty	924-42-5	213-103-2	0.01

225	1,2-Bis(2,4,6-tribromophenoxy)ethane	Reference EPA 3550C:2007, GC-MS	Persistent and bioaccumulative substances	37853-59-1	253-692-3	0.005

(**SVHC**)

Reference Methods:

No.	Substance Name	Reference Method and Instrumentation	Substance Category	CAS Number	EC No.	Detection Limit
226	Tetrabromobisphenol A	Reference: EPA 3550C:2007, HPLC	Carcinogenicity	79-94-7	201-236-9	0.001
227	Bisphenol S	Reference EPA 3550C:2007, LC-MS	Reproductive toxicity, endocrine-disrupting properties—environmental; endocrine-disrupting properties -Human health	80-09-1	201-250-5	0.005
228	Barium metaborate (3)	See EPA 3052:1996/ EPA 6010D:2018, ICP-OES	Reproductive Toxicity	13701-59-2	237-222-4	0.01
229	3,4,5,6-Tetrabromo-1,2-benzenedicarboxylic acid carboxylic acid bis(2-ethylhexyl) ester, including any single isomer and/or a combination thereof	See EPA 3550C:2007, GC-MS	Persistent and bioaccumulative substances	—	—	0.005
230	Isobutyl p-hydroxybenzoate	Reference: EPA 8061A:1996, GC-MS	Endocrine Disruptor Properties—Human Health	4247-02-3	224-208-8	0.005
231	Melamine	In-house method, LC-MS	Substances that may cause serious effects on humans or the environment	108-78-1	203-615-4	0.005
232	Perfluoroheptanoic acid and its salts	See EPA 3550C:2007 & EPA 8321B:2007, LC-MS	Reproductive toxicity; persistent and bioaccumulative toxicity; substances of very high persistence and bioaccumulation; substances that may cause serious effects on humans or the environment	—	—	0.01
233	2,2,3,3,5,5,6,6-Octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropyl-2-yl)morpholine 2,2,3,3,5,5,5,6,6-Octafluoroalkane-4-(heptafluoropropyl)morpholine reaction mixture (1)	See EN 14582:2016, IC	Persistent and bioaccumulative substances	—	473-390-7	0.01
234	4,4'-Dichlorodiphenylsulfone	In-house method, HPLC	High Persistence, High Bioaccumulation	80-07-9	201-247-9	0.004
235	Diphenyl(2,4,6-trimethylphenyl formyl)phosphine oxide	In-house method, HPLC	Reproductive Toxicity	75980-60-8	278-355-8	0.004
236	2,4,6-tri-tert-butylphenol	In-house method, GC-MS	Reproductive toxicity; Persistent, bioaccumulative, and toxic substances; Persistent and highly bioaccumulative substances	732-26-3	211-989-5	0.0025
237	2-(2H-benzotriazole-2-)-4-(1,1,3,3-tetramethyl butyl)phenol (UV329)	In-house method, GC-MS	High persistence and high bioaccumulation Substance	3147-75-9	221-573-5	0.0025
238	2-(4-methylbenzyl)-2-(dimethylamino)-1-(4-morpholinophenyl)-1-butanone	In-house method, HPLC	Reproductive Toxicity	119344-86-4	438-340-0	0.00075

239	Benzotriazole (UV326)	In-house method, GC-MS	Persistent and highly bioaccumulative substances	3896-11-5	223-445-4	0.0025
240	Products of the oligomerization and alkylation of 2-phenylpropene and phenol (OAPP)	In-house method, GC-MS	High persistence and high bioaccumulation Substance	—	700-960-7	0.0025

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Reference Methods:

No.	Substance Name	Reference Method and Instrumentation	Substance Classification	CAS Number	EC No.	Detection Limit
241	Diisopropylbenzene peroxide	In-house method, HPLC	Reproductive toxicity	80-43-3	201-279-3	0.01
242	Triphenyl phosphate	In-house method, GC-MS	Endocrine-disrupting properties Properties—Environmental	115-86-6	204-112-2	0.0025
243	Octamethyltrisiloxane	In-house method, GC-MS	High persistence and high bioaccumulation Substance	107-51-7	203-497-4	0.0025
244	Perfluorotripropylamine	Reference: EPA 3550C:2007 & EPA 8082A:2007, GC-MS	Persistent and Highly Bioaccumulative Substances	338-83-0	206-420-2	0.01
245	O,O,O-triphenyl thiophosphate	In-house method, GC-MS	Persistent, Bioaccumulative, and Toxic Substances	597-82-0	209-909-9	0.0025
246	Reaction products of triphenyl thiophosphate and tert-butylphenyl derivatives (1)	Refer to EPA 3052:1996, ICP-OES	Persistent, Bioaccumulative, and Toxic Substances Substance	192268-65-8	421-820-9	0.01
247	6-[(C10–C13)-alkyl-(branched chain,unsaturated)-2,5-dioxopyrrolo -1-yl]hexanoic acid	In-house method, HPLC	Reproductive toxicity	2156592-54-8	701-118-1	0.01

(2) 4 Proposed Reference Methods for Substances of Very High Concern (SVHCs):

No.	Substance Name	Reference Method and Instrument	Substance Category	CAS Number	EC No.	Detection Limit %
1	Resorcinol	EPA 3550C:2007, HPLC	Endocrine Disruptor Properties—Human Health	108-46-3	203-585-2	0.001
2	Decamethyl tetrasiloxane	In-house method, GC-MS	High persistence and high bioaccumulation Substance	141-62-8	205-491-7	0.0025
3	1,1,1,3,5,5,5-heptamethyl-3[(trimethyl silyl)oxy]trisiloxane	In-house method, GC-MS	High persistence and high bioaccumulation Substance	17928-28-8	242-867-7	0.0025
4	Tetrasodium/tetrapotassium 7-[(E)-{2-acetamido -4-[(E)-(4-{[4-chloro-6-[(2-[(4-fluoro -6-[(4-(vinylsulfonyl)phenyl)amino]-1,3,5-triazine-2-yl)amino]propyl }amino)-1,3,5-triazine-2-yl]amino -5-sulfonyl-1-naphthyl)azo]-5-methoxyphenyl}azo]-1,3,6-naphthalene trisulfonic (Active Brown 51)	In-house methods, HPLC & ICP-OES	Reproductive Toxicity	—	466-490-7	0.05

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(3) Reference Methods for 6 Preselected Substances of Very High Concern (SVHCs):

No.	Substance Name	Reference Methods and Instruments	Substance Category	CAS Number	EC No.	Detection Limit %
1	Hexamethyldisiloxane	In-house method, GC-MS	Persistence, bioaccumulation, and toxic substances	107-46-0	203-492-7	0.0025
2	Dodecamethylpentasiloxane	In-house method, GC-MS	Highly persistent and highly bio accumulative substance	141-63-9	205-492-2	0.0025
3	n-Hexane	In-house method, GC-MS	Substances that pose a serious serious effects on human health	110-54-3	203-777-6	0.005
4	Formaldehyde	EPA 3550C:2007, HPLC	Carcinogenicity	50-00-0	200-001-8	0.005
5	Barium chromate (3)	Reference EPA 3052: 1996, ICP-OES	Carcinogenicity	10294-40-3	233-660-5	0.01
6	1,1,1,3,5,5,5-heptamethyl trisiloxane	In-house method, GC-MS	High persistence and high bio accumulative substance	1873-88-7	217-496-1	0.0025

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(1) Test Results for 247 Substances of Very High Concern (SVHC) (Unit: %):

No.	Test Item	Test Results
1–247	All SVHCs on the Candidate List tested	Not detected

(2) Test results for 4 proposed Substances of Very High Concern (SVHCs) (Unit: %):

No.	Test Item	Test Results
1–4	All Proposed SVHCs	Not detected

(3) Test results for 6 pre-selected Substances of Very High Concern (SVHCs) (Unit: %):

No.	Test Item	Test Results
1–6	All pre-selected SVHCs	Not detected

Note: Not detected: Below the limit of detection
0.1% = 1000 mg/kg = 1000 ppm mg/kg = ppm

(1) The concentration values for cobalt dichloride are calculated from the test results for cobalt (Co) and chlorine (Cl). The concentration values for cobalt sulfate, cobalt nitrate, cobalt carbonate, and cobalt acetate are based on cobalt (Co) and acid test results.Triethyl arsenate, diarsenic pentoxide, diarsenic trioxide, sodium dichromate, lead hydrogen arsenate, chromium trioxide, chromium(III) oxide, and acids produced by their oligomers (chromic acid, dichromic acid, and oligomers of chromic and dichromic acids), strontium chromate,boric acid, anhydrous sodium tetraborate, hydrated sodium tetraborate, sodium chromate, potassium chromate, potassium dichromate, ammonium dichromate,chromic acid, potassium zinc chromate hydroxide, arsenic acid, calcium arsenate, lead arsenate, lead azide, lead 2,4,6-trinitrohydroquinonate, lead picrate, diboron trioxide,lead methylsulfonate, basic lead acetate, basic lead carbonate, basic lead sulfate, lead fluoroborate, lead aminocyanide, lead nitrate, lead oxide, lead(III) tetroxide, lead titanate, lead zirconate titanate,lead silicate, lead(II) sulfite, tribasic lead sulfate, lead(IV) phosphate, tetraethyl lead, dibasic lead phthalate, bis(octadecanoate)dioxotri-lead, C16-18 fatty acid lead salts, cadmium oxide, cadmium sulfide,lead(II) acetate, sodium perborate, sodium perborate salts, sodium perborate, cadmium chloride, cadmium fluoride,cadmium sulfate, cadmium nitrate, cadmium carbonate, cadmium hydroxide, sodium borate, dioctyltin dilaurate, tin alkyls, dioctyl-, bis(cocoatoxy) derivatives, and any other tin alkyls, dioctyl-, bis(fatty acyloxy) derivatives.Here, C12 refers to the number of main carbon atoms in the fatty acyloxy group / di-octylstannane, bis(cocoatoxy) derivatives / di-octyldilauryl tin, sodium borate, sodium salts, S-(tricyclo[5.2.1.$0^{2,6}$]dec-3-en-8(or 9)-yl)O-(isopropyl or isobutyl or 2-ethylhexyl)O-(isopropyl or isobutyl or 2-ethylhexyl) dithiophosphate are derived from the test results of inorganic elements in the substance.2,2,3,3,5,5,6,6-Octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropyl-2-yl)morpholine and 2,2,3,3,5,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine are derived from the test results for fluorine.

(2) Since these substances are UVCB substances (substances of unknown or variable composition, complex reaction products, or biological materials) composed of various components, the test results for these substances are derived from the test results of the major constituent of a selected representative substance.

(3) Since this substance contains multiple components, the test results are based on the concentration of the most representative major constituent compound in the substance, and the test results for this major constituent are derived from the concentration of specific heavy metal elements.

(4) Since TGIC itself contains β-TGIC, and according to the ECHA technical document, the ratio of β-TGIC to TGIC is approximately 1:10, the concentration of β-TGIC will be calculated as 1/10 of the TGIC concentration.

Note:

1. The chemical analyses of the 247 substances of very high concern covered in this report were conducted using existing analytical techniques in accordance with the European Chemicals Agency (ECHA)'s January 21, 2025, regarding the inclusion of substances of very high concern on the Candidate List, and were performed using available analytical techniques. For specific references:
http://echa.europa.eu/web/guest/candidate-list-table

2. Pursuant to EU Regulation (EC) No. 1907/2006, if both of the following conditions are met, and if the substance meets the criteria in Article 57 and in accordance with Article
Any manufacturer or importer of articles identified under Article 59(1) shall notify the European Chemicals Agency in accordance with Article 7(4) if: (a) the total content of the substance in the articles exceeds 1 metric ton per year per manufacturer or importer; (b) the total content of the substance in the articles exceeds a concentration of 0.1% by weight.

(**SVHC**)

3. Article 33 of EU Regulation No. 1907/2006 (EC) stipulates that all suppliers of articles containing substances that meet the criteria set forth in Article 57, have been identified pursuant to Article 59(1), and are present in a concentration exceeding 0.1% by weight, shall provide the recipient of the article with sufficient information available to them to ensure the safe use of the article; such information shall include, at a minimum, the name of the substance.

4. The reference method in this report was specified by the commissioning entity. Sample number and photograph:



Responsible only for the sample shown in the report photographs.
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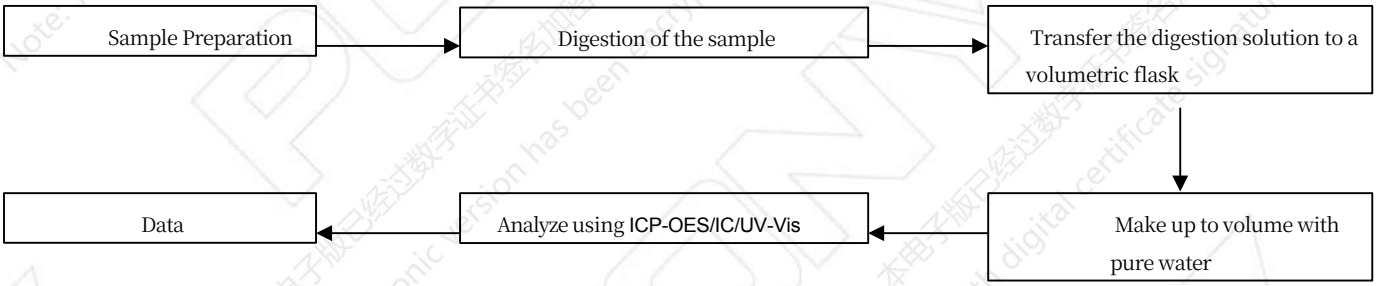
(SVHC)

Test Flowchart

Tester: Luo Congwu;
Reviewer: Gao Yonghao;
Laboratory Director:
Wang Xia

1. Screening: Cobalt(II) dichloride / Arsenic(V) oxide / Arsenic(III) oxide / Sodium dichromate / Lead hydrogen arsenate / Triethyl arsenate / Lead chromate /Molybdenum Chrome Red (C.I. Pigment Red 104)/Lead Chrome Yellow (C.I. Pigment Yellow 34)/Boric Acid/Anhydrous Sodium Tetraborate/Hydrated Sodium Tetraborate/Sodium Chromate/Potassium chromate/Potassium dichromate/Ammonium dichromate/Cobalt sulfate/ Cobalt nitrate/ Cobalt carbonate / Cobalt acetate / Chromium(III) oxide / Acids derived from chromium(III) oxide and chromium(II) oxide and their oligomers (chromic acid, dichromic acid, oligomers of chromic acid and dichromic acid) / Strontium chromate /Hydrazine, also known as hydrazide / Chromium chromate / Potassium zinc chromate hydroxide / Zinc yellow (C.I. Pigment Yellow 36) / Aluminosilicate refractory ceramic fibers / Zirconia-aluminosilicate refractory ceramic fibers / Arsenic acid / Calcium arsenate / Lead arsenate /Lead azide/Lead 2,4,6-trinitrohydroquinone/Lead picrate/Boron trioxide/Lead methylsulfonate/Lead acetate basic/Lead carbonate basic/Lead sulfate basic/Lead fluoroborate/Lead aminocyanide/Lead nitrate/Lead oxide/Trilead tetroxide/Lead titanate/Lead zirconate titanate/Compounds of lead oxide and lead sulfate/Pigment Yellow 41/Lead-doped silicate-barium silicate/Lead silicate/Lead(II) sulfite/Tribasic lead sulfate/Lead(II) phosphate/Tetraethyl lead/Dibasic lead phthalate/Bis(octadecanoate) trioxotri-lead/C16-18 fatty acid lead salts/Cadmium/Cadmium oxide/Cadmium sulfide/ Lead(II) acetate/Sodium perborate, sodium perborate salts/Sodium perborate/Cadmium chloride/Cadmium fluoride/Cadmium sulfate/Di-n-octyl-bis(2-ethylhexyl mercaptan) tin (DOTE)/Reaction product of di-n-octyl-bis(2-ethylhexyl mercaptan) tin (DOTE) and tri(2-ethylhexyl mercaptan) octyl tin (MOTE)/Cadmium nitrate/cadmium carbonate/cadmium hydroxide/sodium borate/lead/diacetylacetonate dibutyl tin/dioctyl tin dilaurate, tin alkyls, dioctyl-, bis(cocoatoxy) derivatives, and any other tin alkyls, dioctyl-, bis(fatty acyloxy) derivatives.where C12 is the number of main carbon atoms in the fatty acyloxy group/sodium borate/S-(tricyclo[5.2.1.$0^{2,6}$]dec-3-en-8(or 9)-yl)O-(isopropyl or isobutyl or 2-ethylhexyl Reaction products of (base)O-(isopropyl or isobutyl or 2-ethylhexyl) dithiophosphate/barium metaborate/triphenyl dithiophosphate and tert-butylphenyl derivatives/

Tetr(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-{[4-chloro-6-[(2-[(4-fluoro-6-[(4-(vinylsulfonyl)phenyl)amino]-1,3,5-triazine-2-yl)amino]propyl }amino)-1,3,5-triazine-2-yl]amino}-5-sulfonyl-1-naphthyl)azo]-5-methoxyphenyl}azo]-1,3,6-naphthalenesulfonic acid salt (Active Brown 51)/barium chromate



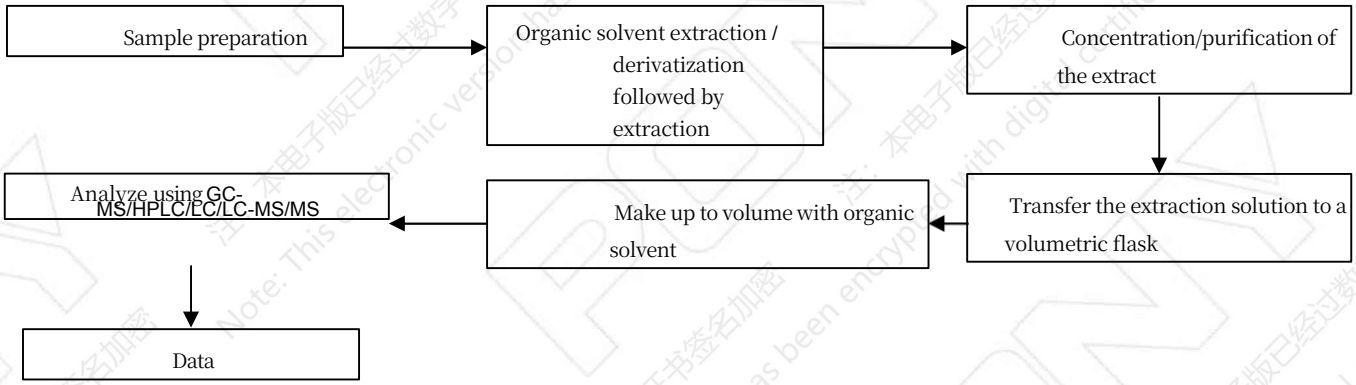
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(SVHC)

Test Flowchart

Tester: Wang Yufeng;
Reviewer: Gao Yonghao;
Laboratory Director:
Wang Xia

2. Determination of Anthracene/4,4'-Diaminodiphenylmethane/Xylene Musk/Bis(tributyl)tin Oxide/Hexabromocyclododecane and Its Diastereoisomers/C10–13 Short-Chain Chlorinated Paraffins/Dibutyl Phthalate/di(2-ethylhexyl) phthalate/butyl benzyl phthalate/2,4-dinitrotoluene/anthracene oil/anthracene oil, anthracene paste, light oil/anthracene oil, anthracene paste,anthracene fraction/anthracene oil, low anthracene content/anthracene oil, anthracene slurry/dibutyl phthalate/acrylamide/tri(2-chloroethyl) phosphate/coal tar pitch, high-temperature/trichloroethylene/2-methoxyethanol/2-ethoxyethanol/Ethylene glycol ethyl ether acetate/1,2-benzenedicarboxylic acid di(C7-11 branched- and linear-chain) alkyl esters/1-methyl-2-pyrrolidone/1,2,3-trichloropropane/phthalic acid di(C6-8 branched and linear) alkyl esters, C7-rich/dimethoxyethyl phthalate/o-aminophenyl methyl ether/p-tert-octylphenol/1,2-dichloroethane/diethylene glycol dimethyl ether/N,N-dimethylacetamide/phenolphthalein/4,4'-methylenebis(2-chloroaniline)
/1,2-Bis(2-methoxyethoxy)ethane (triethylene glycol dimethyl ether)/ethylene glycol dimethyl ether/formamide/triglycidyl isocyanurate (TGIC)/1,3,5-tri-[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione/4,4'-di(N,N-dimethylamino)diphenyl ketone (tetraethyl mesityl ketone)/N,N,N',N'-tetramethyl-4,4'-diaminodiphenylmethane (mesityline)/Crystal Violet/Basic Blue/α,α-Di[4-(dimethylamino)phenyl]-4-phenylamino-1-naphthol (Solvent Blue 4)/α,α-Di[(dimethylamino)phenyl]-4-methylaminobenzyl alcohol/Decabromobiphenyl Ether/Perfluorotridecanoic Acid/Perfluorododecanoic Acid
/perfluoroundecanoic acid/perfluorotetradecanoic acid/p-tert-octylphenol,ethoxy—including well-defined substances as well as UVCB substances, polymers, and homologs/branched or linear nonylphenols, substances containing a 9-carbon alkyl chain with a linearly or branched, covalently bound phenol group, including UVCB substances and any substances containing well-defined isomers, either individually or in combination/azodicaramide/hexahydrophthalic anhydride/methyl hexahydrophthalic anhydride, 4-methyl hexahydrophthalic anhydride, methyl hexahydrophthalic anhydride, 3-methyl hexahydrophthalic anhydride/methoxyacetic acid/branched-chain and linear 1,2-benzenedicarboxylic acid di-pentyl esters/diisopentyl phthalate/n-pentyl isopentyl phthalate/Ethylene glycol diethyl ether/N,N-dimethylformamide/dibutyl tin dichloride/dibasic lead phthalate/bis(octadecanoate) trioxotri-lead/C16-18 fatty acid lead salts/Tetraethyl lead/Furan/Propylene oxide/Diethyl sulfate/Dimethyl sulfate/Dichlorophenol/4,4'-Diamino
-3,3'-dimethyldiphenylmethane/4,4'-diaminodiphenyl ether/4-aminoazobenzene/2,4-diaminotoluene/2-methoxy-5-methylaniline/4-aminobiphenyl/o-Aminoazotoluene/o-Methylaniline/N-Methylacetamide/Bromo-n-propane/3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolane/Di-n-pentyl phthalate/Nonylphenol polyoxyethylene ethers (branched and linear); branched and linear ethoxylated nonylphenols, including all individual isomers containing a 9-carbon alkyl chain and all UVCB substances containing branched and linear 9-carbon alkyl chains/Ammonium perfluorooctanoate/Perfluorooctanoic acid/ C.I. Direct Black 38 / Dihexyl phthalate / 2-Mercaptoimidazoline;2-imidazolothione; ethylene thiourea/tri(xylene) phosphate/Congo Red (C.I. Direct Red 28)/dihexyl phthalate (branched and linear)/2-(2'-hydroxy-3',5'-di-tert-butylphenyl)-benzotriazole (UV-320)/2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328)/1,2-phthalic acid di(C6-C10) alkyl esters; complexes of 1,2-phthalic acid (decyl, hexyl, octyl) esters with a dihexyl phthalate content of ≥0.3%/5-sec-butyl-2-(2,4-dimethylcyclobut-3-en-1-yl)-5-methyl-1,3-dioxane[1] and 5-sec-butyl-2-(4,6-Dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane[2] (a structural isomer of karahaldial)/1,3-propane-sulfone lactone/2-(2'-hydroxy-3',5'-di-tert-butylphenyl)-5-chlorobenzotriazole/2-(2'-hydroxy-3'-isobutyl-5'-tert-butylphenyl)benzotriazole/Nitrobenzene/Perfluoro-9-acid and its sodium and ammonium salts/Benzo(a)pyrene/4-Heptylphenol,branched and linear/perfluorooctanoic acid, sodium perfluorooctanoate, and ammonium perfluorooctanoate/p-tert-amylphenol/4,4'-isopropylidenebis(bisphenolA)
/perfluorohexanesulfonic acids/dechloron [including all trans and cis isomers and their combinations]/benzo[a]anthracene/pyrene/1,3,4-thiadiazolidine-2,5-dithione,reaction products of formaldehyde and 4-heptylphenol (branched and linear chains) (RP-HP) [4-heptylphenol, branched and linear chain content ≥ 0.1% w/w]

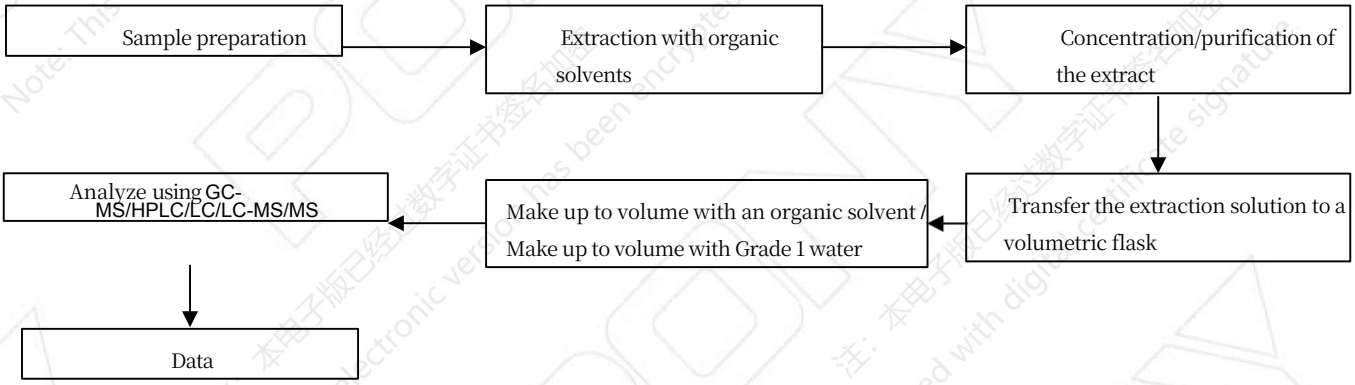


(SVHC)

Test Flowchart

Tester: Wang Yufeng;
Reviewer: Gao Yonghao;
Laboratory Director:
Wang Xia

3. Determination of Benzo(g,h,i)perylene/Decamethylcyclopentasiloxane (D5)/Dodecamethylcyclohexasiloxane (D6)/Ethylenediamine/Octamethylcyclotetrasiloxane (D4)/Hydrogenated Triphenyl/benzene-1,2,4-tricarboxylic acid 1,2-anhydride (terephthalic anhydride) (TMA)/dicyclohexyl phthalate/4,4'-(1,3-dimethylbutyl)diphenol/benzo(k)fluorene/fluorene/Phenanthrene/Pyrene/1,7,7-Trimethyl-3-(phenylmethylene)bicyclo[2.2.1]hept-2-one or 3-benzylidene camphor/HFPO-DA 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoic acid and its salts and acyl halides (including isomers and mixtures)/ethyl 2-methoxyacetate/tri(4-nonylphenyl,branched) phosphite/4-tert-butylphenol/2-benzyl-2-dimethylamino-1-(4-morpholinophenyl)butanone (Photoinitiator 369)/2-methyl-1-(4-methylthio-phenyl)-2-morpholino-1-propanone (Photoinitiator 907)/Diisopropyl phthalate/Perfluorobutanesulfonic acid (PFBS) and its salts/1-Vinylimidazole/2-Methylimidazole/Butyl 4-hydroxybenzoate/Tetraglycol dimethyl ether/Tetraglycol dimethyl ether/1,4-Dioxane (dioxane)/Dibromo-neopentyl glycol/Tribromonovalerol/2,3-Dibromo-1-propanol/2-(4-tert-butylbenzyl)propanal and its stereoisomers/2,2-Bis(4-hydroxyphenyl)butane (Bisphenol B)/glutaraldehyde/medium-chain chlorinated paraffin (MCCP)(UVCB substance: composed of straight-chain chlorinated alkanes with carbon chain lengths between C14 and C17, accounting for ≥ 80% of the total)/Polymerization-derived straight-chain or branched alkylphenol compounds with a carbon chain length predominantly of C12 (primarily in the para position), including any isomers and combinations thereof (PDDP)/(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]hept-2-one, including any individual isomers and/or combinations thereof (4-MBC) / 2,2'-methylene bis-(4-methyl-6-tert-butylphenol) (DBMC) / S-(tricyclo[5.2.1.0^{2,6}]dec-3-en-8(or 9)-yl)O-(isopropyl or isobutyl or 2-ethylhexyl)O-(isopropyl or isobutyl or 2-ethylhexyl) dithiophosphate /Vinyl-tri(2-methoxyethoxy)silane/N-hydroxymethylacrylamide/1,2-di(2,4,6-tribromophenoxy)ethane/tetrabromobisphenol A/bisphenol S/3,4,5,6-tetrabromo-1,2-benzenedicarboxylic acid bis(2-ethylhexyl) ester, including any individual isomers and/or combinations thereof/isobutyl p-hydroxybenzoate/melamine/perfluoroheptanoic acid and its salts /2,2,3,3,5,5,6,6-Octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropyl-2-yl)morpholine and 2,2,3,3,5,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine reaction mixture /4,4'-dichlorodiphenyl sulfone/diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide/hexamethyldisiloxane/dodecamethylpentasiloxane/decamethyltetrasiloxane /1,1,1,3,5,5,5-heptamethyltrisiloxane/1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane/octamethyltrisiloxane/triphenyl phosphate/Benzotriazole (UV326)/2-(4-Methylbenzyl)-2-(dimethylamino)-1-(4-morpholinophenyl)-1-butanone/2-(2H-benzotriazol-2-yl)-4-(1,1, 3,3-tetramethylbutyl)phenol (UV329)/2,4,6-tri-tert-butylphenol/benzotriazole (UV326)/2-(4-methylbenzyl)-2-(dimethylamino)-1-(4-morpholinophenyl)-1-butanone /2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV329)/2,4,6-tri-tert-butylphenol/oligomerization and alkylation reaction products of 2-phenylpropene and phenol/Diisopropylbenzene peroxide/Triphenyl phosphate/Octamethyltrisiloxane/Perfluorotripropylamine/O,O,O-triphenyl thiophosphate/Tris(4-nonylphenyl, branched) phosphite/reaction products of triphenyl thiophosphate and tert-butylphenyl derivatives/6-[(C10–C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid/Resorcinol/Decamethyl tetrasiloxane/1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane/Hexamethyl disiloxane/Dodecamethyl pentasiloxane/n-Hexane/formaldehyde/1,1,1,3,5,5,5-heptamethyltrisiloxane



End of Report