

# 检测报告

编号: ESZ2501170022C00201R

日期: 2025 年 01 月 23 日

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委托单位 : 湖州美铄新材料科技有限公司  
Applicant : HUZHOUE MEISHUO NEW MATERIAL CO.,LTD.  
地址 : 湖州市吴兴区敢山路 2056 号  
Address : No.2056 Ganshan Road, Wuxing District, Zhejiang, China

以下检测之样品及样品信息是由申请者提供并确认

The sample and sample information tested below are provided and confirmed by the applicant

样品名称 : 聚乙烯泡棉、聚丙烯泡棉  
Sample Name : Polyethylene foam、Polypropylene foam  
型号 : PE、PP  
Model : PE、PP

接收日期 : 2025 年 01 月 17 日  
Received Date : Jan. 17, 2025  
检测周期 : 2025 年 01 月 17 日~2025 年 01 月 23 日  
Test Period : Jan. 17, 2025 ~ Jan. 23, 2025

检测概要 :  
Test Summary :

检测项目/Test Item

结论/Conclusion

欧盟 REACH 法规 (1907/2006/EC) 247 项高关注度物质 (SVHC)  
REACH regulation (EC) No. 1907/2006 the 247 Substances of Very High Concern

<0.1%

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2025 年 01 月 23 日

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样品描述 Sample Description (以下检测之样品及样品信息是由申请者提供并确认  
/The sample and sample information tested below are provided and confirmed by the applicant)

样品序号 Sample No.	样品编号 Sample Number	样品名称 Sample Name	数量 Quantity	材质 Material
01	E2501170022-01-C	聚乙烯泡棉 Polyethylene foam	1pc	PE
02	E2501170022-02-C	聚丙烯泡棉 Polypropylene foam	1pc	PP

## 检测结果汇总 Summary of Test Results

### 1. SVHC

#### 1.1 检测结果 Test Result

批次 Batch	序号 Code	物质名称 Chemical Substance	CAS 号 CAS No.	EC 号 EC No.	结果 Results(%)	RL(%)
					01+02	
-	-	所有检测的候选物质清单中 SVHC Tested SVHC in Candidate list	-	-	N.D.	-

#### 备注 Note

- 1) N.D.=未检出 (小于 RL)/Not Detected(Less Than RL)
- 2) RL=报告限/Report Limit
- 3) 0.1%=1000mg/kg
- 4) SVHC 浓度: 根据结果及材料特性评估而得。/The SVHC concentration is based on the assessment of the result and the characteristic of material.
- 5) 样品的测试是基于申请人要求混合测试, 报告中的混合测试结果不代表其中个别单一材质的含量/The sample test is based on the applicant's request for a hybrid test, and the results of the mixed test in the report do not represent the content of a single material.

#### 1.2 检测方法 Test Method

检测项目 Test Item	测试方法 Test Method
247 项高关注度物质 (SVHC) The 247 Substances of Very High Concern (SVHC)	酸消解、超声波萃取法、顶空法、沸水萃取、碱式消解、氧弹燃烧及 EMTEK 实验室内部方法 Acid digestion, Ultrasonic extraction, Headspace, Boiling-water-extraction, Alkali digestion, Oxygen bomb burning and Internal laboratory method of EMTEK

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## 1.3 检测设备 Test Instrument

设备名称 Instrument Name	设备厂家 Manufacture	设备型号 Model
ICP-OES	Agilent	5800
UV-VIS	SHIMADZU	UV-1800
IC	Thermo Fisher	ICS-900
GC-MS	Agilent	7890B-5977A
GC-MS	SHIMADZU	QP2010 Ultra
HS-GCMS	SHIMADZU	HS-20 QP2010 Ultra
LC-MS	SHIMADZU	LCMS 2020
LC	SHIMADZU	LC-20AD

## SVHC 247 项物质清单/SVHC List of 247 substances

批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
I	1	蒽 Anthracene	120-12-7	204-371-1	0.05
I	2	4,4'-二氨基二苯基甲烷 4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	0.05
I	3	邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.05
I	4	氯化钴** Cobalt dichloride**	7646-79-9	231-589-4	0.005
I	5	五氧化二砷** Diarsenic pentaoxide **	1303-28-2	215-116-9	0.005
I	6	三氧化二砷** Diarsenic trioxide **	1327-53-3	215-481-4	0.005
I	7	重铬酸钠 Sodium dichromate	7789-12-0 10588-01-9	234-190-3	0.005
I	8	二甲苯麝香 5-tert-butyl-2,4,6-trinitro-m- xylene (musk xylene)	81-15-2	201-329-4	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
I	9	邻苯二甲酸二(2-乙基己基)酯 Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0	0.05
I	10	六溴环十二烷 (α-HBCDD, β-HBCDD, γ-HBCDD) Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4	247-148-4 221-695-9 (134237-50-6, 134237-51-7, 134237-52-8)	0.05
I	11	短链氯化石蜡 Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	0.05
I	12	三丁基氧化锡* (TBTO) Bis(tributyltin)oxide*	56-35-9	200-268-0	0.05
I	13	砷酸氢铅** Lead hydrogen arsenate**	7784-40-9	232-064-2	0.005
I	14	邻苯二甲酸丁苄酯 Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.05
I	15	三乙基砷酸酯 Triethyl arsenate	15606-95-8	427-700-2	0.005
II	16	蒽油 Anthracene oil	90640-80-5	292-602-7	0.05
II	17	蒽油、蒽糊、轻油 Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	0.05
II	18	蒽油、蒽糊、蒸馏分 Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.05
II	19	蒽油, 少蒽 Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.05
II	20	蒽油、蒽糊 Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.05
II	21	高温煤沥青 Coal tar pitch, high temperature	65996-93-2	266-028-2	0.05
II	22	2,4-二硝基甲苯 2,4-Dinitrotoluene	121-14-2	204-450-0	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
II	23	邻苯二甲酸二异丁酯(DIBP) Diisobutyl phthalate	84-69-5	201-553-2	0.05
II	24	铬酸铅** Lead chromate**	7758-97-6	231-846-0	0.005
II	25	钼铬酸铅红** (C.I.颜料红 104) Lead chromate molybdate sulphate red ** (C. I. Pigment Red 104)	12656-85-8	235-759-9	0.005
II	26	铬酸铅黄** (C.I.颜料黄34) Lead sulfochromate yellow** (C. I. Pigment Yellow 34)	1344-37-2	215-693-7	0.005
II	27	三(2-氯乙基)磷酸酯 Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.05
II	28	丙烯酰胺 Acrylamide	79-06-1	201-173-7	0.05
III	29	三氯乙烯 Trichloroethylene	79-01-6	201-167-4	0.05
III	30	硼酸** Boric acid **	10043-35-3 11113-50-1	233-139-2 234-343-4	0.005
III	31	四硼酸钠, 无水** Disodium tetraborate, anhydrous **	1303-96-4 1330-43-4 12179-04-3	215-540-4	0.005
III	32	水合硼酸钠** Tetraboron disodium heptaoxide, hydrate **	12267-73-1	235-541-3	0.005
III	33	铬酸钠** Sodium chromate **	7775-11-3	231-889-5	0.005
III	34	铬酸钾** Potassium chromate **	7789-00-6	232-140-5	0.005
III	35	重铬酸铵** Ammonium dichromate **	7789-09-5	232-143-1	0.005
III	36	重铬酸钾** Potassium dichromate **	7778-50-9	231-906-6	0.005
IV	37	硫酸钴(II)** Cobalt(II) sulphate**	10124-43-3	233-334-2	0.005
IV	38	硝酸钴(II)** Cobalt(II) dinitrate**	10141-05-6	233-402-1	0.005

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
IV	39	碳酸钴(II)** Cobalt (II) carbonate**	513-79-1	208-169-4	0.005
IV	40	醋酸钴(II)** Cobalt(II) diacetate**	71-48-7	200-755-8	0.005
IV	41	乙二醇单甲醚 2-Methoxyethanol	109-86-4	203-713-7	0.05
IV	42	乙二醇单乙醚 2-Ethoxyethanol	110-80-5	203-804-1	0.05
IV	43	三氧化铬** Chromium trioxide**	1333-82-0	215-607-8	0.005
IV	44	铬酸及其低聚物产生的酸类** 铬酸 重铬酸 铬酸和重铬酸的低聚物 Acids generated from chromium trioxide and their oligomers** Group containing: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2	231-801-5 236-881-5	0.005
V	45	乙二醇乙醚乙酸酯 2-ethoxyethyl acetate	111-15-9	203-839-2	0.05
V	46	铬酸锶** Strontium chromate**	7789-06-2	232-142-6	0.005
V	47	邻苯二甲酸二(C7-11支链与直链)烷基酯 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	271-084-6	0.05
V	48	肼Hydrazine	302-01-2 7803-57-8	206-114-9	0.05
V	49	N-甲基吡咯烷酮 1-methyl-2-pyrrolidone	872-50-4	212-828-1	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
V	50	1,2,3-三氯丙烷 1,2,3-trichloropropane	96-18-4	202-486-1	0.05
V	51	邻苯二甲酸二(C6-8支链与直链) 烷基酯, 富C7 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1	0.05
VI	52	2,4,6-三硝基苯二酚铅** Lead styphnate**	15245-44-0	239-290-0	0.005
VI	53	叠氮化铅** Lead diazide, Lead azide**	13424-46-9	236-542-1	0.005
VI	54	苦味酸铅** Lead dipicrate**	6477-64-1	229-335-2	0.005
VI	55	酚酞 Phenolphthalein	77-09-8	201-004-7	0.05
VI	56	2,2'-二氯-4,4'-亚甲基双苯胺 2,2'-Dichloro-4,4'- methylenedianiline	101-14-4	202-918-9	0.05
VI	57	N,N-二甲基乙酰胺 N,N-dimethylacetamide	127-19-5	204-826-4	0.05
VI	58	砷酸铅** Trilead diarsenate**	3687-31-8	222-979-5	0.005
VI	59	砷酸钙** Calcium arsenate**	7778-44-1	231-904-5	0.005
VI	60	砷酸** Arsenic acid**	7778-39-4	231-901-9	0.005
VI	61	二乙二醇二甲醚 Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.05
VI	62	1,2-二氯乙烷 1,2-Dichloroethane	107-06-2	203-458-1	0.05
VI	63	4-(1,1,3,3-四甲基丁基)苯酚; 4- (叔辛基)苯酚 4-(1,1,3,3- tetramethylbutyl)phenol, (4-tert- Octylphenol)	140-66-9	205-426-2	0.05
VI	64	2-甲氧基苯胺; 邻甲氧基苯胺 2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
VI	65	邻苯二甲酸二甲氧乙酯(DMEP) Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.05
VI	66	甲醛苯胺共聚物 Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.05
VI	67	氧化锆硅酸铝耐火陶瓷纤维(Zr-RCF)*** Zirconia Aluminosilicate Refractory Ceramic Fibres***	/	/	0.005
VI	68	硅酸铝耐火陶瓷纤维(RCF)*** Aluminosilicate Refractory Ceramic Fibres (RCF)***	/	/	0.005
VI	69	锌黄(C.I.颜料黄 36)** Pentazinc chromate octahydroxide**	49663-84-5	256-418-0	0.005
VI	70	氢氧化铬酸锌钾** Potassium hydroxyoctaoxodizincatedi- chromate**	11103-86-9	234-329-8	0.005
VI	71	铬酸铬** Dichromium tris chromate**	24613-89-6	246-356-2	0.005
VII	72	溶剂蓝 4 **** α,α-Bis[4- (dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol**** (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.05
VII	73	N,N,N',N'-四甲基-4,4'-二氨基二 苯甲烷 N,N,N',N'-tetramethyl-4,4'- methylenedianiline (Michler's base)	101-61-1	202-959-2	0.05

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VII	74	1,3,5-三(环氧乙烷基甲基)-1,3,5-三嗪-2,4,6-(1H,3H,5H)-三酮立体异构体 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	423-400-0	0.05
VII	75	三氧化二硼** Diboron trioxide**	1303-86-2	215-125-8	0.005
VII	76	三甘醇二甲醚(TEGDME ) 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.05
VII	77	4,4'-二[(二甲氨基)苯基]-4-甲氨基苯甲醇 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.05
VII	78	甲基磺酸铅 Lead(II) Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5	0.005
VII	79	甲酰胺 Formamide	75-12-7	200-842-0	0.05
VII	80	结晶紫**** [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride ****	548-62-9	208-953-6	0.05
VII	81	1,2-二甲氧基乙烷 (EGDME) 1,2-dimethoxyethane; ethylene glycol dimethyl ether	110-71-4	203-794-9	0.05
VII	82	碱性蓝 26**** [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methyle ne]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) ****	2580-56-5	219-943-6	0.05

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VII	83	1,3,5-三缩水甘油-S-三嗪三酮;异 氰尿酸三缩水甘油酯 1,3,5-Tris(oxiran-2-ylmethyl)- 1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3	0.05
VII	84	4,4'-二(N,N-二甲氨基)二苯甲酮; 米蚩酮; 四甲基米氏酮 4,4'- bis(dimethylamino)benzopheno ne (Michler's ketone)	90-94-8	202-027-5	0.05
VIII	85	甲基六氢苯酐、 4-甲基六氢苯酐、 甲基六氢化邻苯二甲酸酐、3-甲 基六氢苯二甲酯酐 Hexahydromethylphthalic anhydride [1], Hexahydro-4- methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3- methylphthalic anhydride [4]	25550-51-0, 19438- 60-9, 48122-14-1, 57110-29-9	247-094-1, 243- 072-0, 256-356- 4, 260-566-1	0.05
VIII	86	2-甲氧基-5-甲基苯胺 6-methoxy-m-toluidine (p- cresidine)	120-71-8	204-419-1	0.05
VIII	87	环己烷-1,2 -二羧酸酐 顺式-环己烷-1 -1,2 -二羧酸酐 反式环己烷-1,2 -二羧酸酐 Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane- 1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2- dicarboxylic anhydride [3]	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	0.05
VIII	88	烧绿石, 锑铅黄 Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	0.005
VIII	89	全氟十一烷酸 Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.05
VIII	90	4-氨基偶氮苯 4-Aminoazobenzene	60-09-3	200-453-6	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
VIII	91	硅酸铅** Silicic acid, lead salt **	11120-22-2	234-363-3	0.005
VIII	92	钛酸铅锆** Lead titanium zirconium oxide **	12626-81-2	235-727-4	0.005
VIII	93	氧化铅** Lead monoxide(lead oxide) **	1317-36-8	215-267-0	0.005
VIII	94	邻甲基苯胺 o-Toluidine	95-53-4	202-429-0	0.05
VIII	95	3-乙基-2-甲基-2-(3-甲基丁基)- 1,3-恶唑烷 3-ethyl-2-methyl-2-(3- methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.05
VIII	96	二丁基二氯化锡 (DBTC) Dibutyltin dichloride	683-18-1	211-670-0	0.05
VIII	97	四氟硼酸铅** Lead bis(tetrafluoroborate) **	13814-96-5	237-486-0	0.005
VIII	98	硝酸铅** Lead dinitrate **	10099-74-8	233-245-9	0.005
VIII	99	掺杂铅的硅钡酸盐** Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped**	68784-75-8	272-271-5	0.005
VIII	100	碱式碳酸铅** Trilead bis(carbonate)dihydroxide**	1319-46-6	215-290-6	0.005
VIII	101	4,4'-二氨基-3,3'-二甲基联苯基甲 烷 4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.05
VIII	102	硫酸二乙酯 Diethyl sulphate	64-67-5	200-589-6	0.05
VIII	103	硫酸二甲酯 Dimethyl sulphate	77-78-1	201-058-1	0.05
VIII	104	N,N-二甲基甲酰胺 N,N-dimethylformamide	68-12-2	200-679-5	0.05
VIII	105	乙氧基化 4-(1,1,3,3-四甲基丁基) 苯酚 (乙氧基化对特辛基苯酚) 4-(1,1,3,3- tetramethylbutyl)phenol, ethoxylated	/	/	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
VIII	106	直链和支链 4-壬基苯酚 4-Nonylphenol, branched and linear	/	/	0.05
VIII	107	呋喃 Furan	110-00-9	203-727-3	0.05
VIII	108	碱式硫酸铅** Lead oxide sulfate **	12036-76-9	234-853-7	0.005
VIII	109	钛酸铅** Lead titanium trioxide **	12060-00-3	235-038-9	0.005
VIII	110	十溴联苯醚 Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)(DecaBDE)	1163-19-5	214-604-9	0.05
VIII	111	地乐酚(6-仲丁基-2,4-二硝基苯酚) Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	0.05
VIII	112	1,2-二乙氧基乙烷 1,2-Diethoxyethane	629-14-1	211-076-1	0.05
VIII	113	N-甲基乙酰胺 N-methylacetamide	79-16-3	201-182-6	0.05
VIII	114	三碱式硫酸铅** Tetralead trioxide sulphate **	12202-17-4	235-380-9	0.005
VIII	115	碱式乙酸铅** Acetic acid, lead salt, basic **	51404-69-4	257-175-3	0.005
VIII	116	[1,2-苯二羧酸根合]二氧化三铅** [Phthalato(2-)]dioxotrilead**	69011-06-9	273-688-5	0.005
VIII	117	四乙基铅** Tetraethyllead **	78-00-2	201-075-4	0.005
VIII	118	1-(3-甲基丁基)2-戊基酯 N-pentyl-isopentylphthalate	776297-69-9	/	0.05
VIII	119	氧化铅与硫酸铅的复合物 ** Pentalead tetraoxide sulphate **	12065-90-6	235-067-7	0.005
VIII	120	全氟十四酸 Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.05
VIII	121	全氟十二酸 Tricosafuorododecanoic acid	307-55-1	206-203-2	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
VIII	122	溴代正丙烷 1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	0.05
VIII	123	双(十八酸基)二氧代三铅 Dioxobis(stearato)trilead	12578-12-0	235-702-8	0.005
VIII	124	全氟十三酸 Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.05
VIII	125	甲氧基乙酸 Methoxyacetic acid	625-45-6	210-894-6	0.05
VIII	126	环氧丙烷 Methyloxirane (Propylene oxide)	75-56-9	200-879-2	0.05
VIII	127	二碱式亚磷酸铅 Trilead dioxide phosphonate	12141-20-7	235-252-2	0.005
VIII	128	邻氨基偶氮甲苯 o-aminoazotoluene	97-56-3	202-591-2	0.05
VIII	129	2,4-二氨基甲苯 4-methyl-m-phenylenediamine	95-80-7	202-453-1	0.05
VIII	130	邻苯二甲酸二异戊酯(DIPP) Diisopentylphthalate	605-50-5	210-088-4	0.05
VIII	131	支链和直链 1,2-苯二羧二戊酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.05
VIII	132	联苯-4-胺 Biphenyl-4-ylamine	92-67-1	202-177-1	0.05
VIII	133	C16-18-脂肪酸铅盐** Fatty acids, C16-18, lead salts **	91031-62-8	292-966-7	0.005
VIII	134	四氧化三铅** Orange lead (lead tetroxide) **	1314-41-6	215-235-6	0.005
VIII	135	4,4'-二氨基二苯醚及其盐 4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.05
VIII	136	偶氮二甲酰胺 Diazene-1,2-dicarboxamide (C,C'-azodi (formamide))	123-77-3	204-650-8	0.05
VIII	137	碱式亚硫酸铅(II)盐** Sulfurous acid, lead salt, dibasic **	62229-08-7	263-467-1	0.005

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
VIII	138	氨基氰铅(II)盐 ** Lead cyanamidate **	20837-86-9	244-073-9	0.005
IX	139	镉 Cadmium	7440-43-9	231-152-8	0.005
IX	140	氧化镉** Cadmium oxide**	1306-19-0	215-146-2	0.005
IX	141	邻苯二甲酸二戊酯 Dipentyl phthalate(DPP)	131-18-0	205-017-9	0.05
IX	142	乙氧基化4壬基酚、支链和直链 4-Nonylphenol, branched and linear, ethoxylated	/	/	0.05
IX	143	全氟辛酸铵 Ammonium pentadecafluorooctanoate(APF O)	3825-26-1	223-320-4	0.05
IX	144	全氟辛酸 Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.05
X	145	硫化镉 Cadmium sulphide	1306-23-6	215-147-8	0.005
X	146	邻苯二甲酸二己酯 Dihexyl phthalate (DnHP)	84-75-3	201-559-5	0.05
X	147	C. I.直接红 28 D. Disodium 3,3'-[[1,1'- biphenyl]-4,4'-diylbis(azo)]bis(4- aminonaphthalene-1- sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	0.05
X	148	CI 直接黑 38 Disodium 4-amino-3-[[4'-[(2,4- diaminophenyl)azo][1,1'- biphenyl]-4-yl]azo] -5-hydroxy- 6-(phenylazo)naphthalene-2,7- disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	0.05
X	149	亚乙基硫脲 Imidazolidine-2-thione; 2- imidazoline-2-thiol	96-45-7	202-506-9	0.05
X	150	乙酸铅** Lead di(acetate)**	301-04-2	206-104-4	0.005

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
X	151	磷酸三（二甲苯）酯 Trixylyl phosphate	25155-23-1	246-677-8	0.05
XI	152	氯化镉** Cadmium chloride**	10108-64-2	233-296-7	0.005
XI	153	邻苯二甲酸二（支链与直链）己基酯 1,2-Benzenedicarboxylicacid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.05
XI	154	过硼酸钠** Sodium peroxometaborate**	7632-04-4	231-556-4	0.005
XI	155	过硼酸钠;过硼酸,钠盐** Sodium perborate; perboric acid, sodium salt**	/	239-172-9 234-390-0	0.005
XII	156	紫外吸收剂 2-(2'-Hydroxy-3',5'-di-tert-butylphenyl)benzotriazole (UV-320)	3846-71-7	223-346-6	0.05
XII	157	紫外吸收剂 UV-328	25973-55-1	247-384-8	0.05
XII	158	氟化镉** Cadmium fluoride**	7790-79-6	232-222-0	0.005
XII	159	硫酸镉** Cadmium sulphate**	10124-36-4; 31119-53-6	233-331-6	0.005
XII	160	二正辛基-双(巯乙酸 2-乙基己酯)锡(DOTE) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; (DOTE)	15571-58-1	239-622-4	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
XII	161	二正辛基-双(巯乙酸 2-乙基己酯) (DOTE) 和三 (2-乙基己基硫 基乙酸) 辛锡 (MOTE) 反应物 料  Reaction mass of 2- ethylhexyl 10-ethyl-4,4-dioctyl- 7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate and 2- ethylhexyl 10-ethyl-4-[[2-[(2- ethylhexyl)oxy]-2-oxoethyl]thio]- 4-octyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (reaction mass of DOTE and MOTE)	/	/	0.05
XIII	162	邻苯二甲酸二 (C6-C10) 烷基 酯; (癸基, 己基, 辛基) 酯与 1,2- 邻苯二甲酸的复合物且邻苯二甲 酸二己酯含量≥ 0.3% 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2- benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥0.3% of dihexyl phthalate	68515-51-5 68648-93-1	271-094-0 272-013-1	0.05
XIII	163	卡拉花醛及其同分异构体 5-sec-butyl-2-(2,4- dimethylcyclohex-3-en-1-yl)-5- methyl-1,3-dioxane [1], 5-sec- butyl-2-(4,6-dimethylcyclohex-3- en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	/	/	0.05
XIV	164	硝基苯 Nitrobenzene	98-95-3	202-716-0	0.05
XIV	165	2-(2'-羟基-3',5'-二叔丁基苯基)- 5-氯代苯并三唑 (UV-327) 2,4-di-tert-butyl-6-(5- chlorobenzotriazol-2-yl)phenol	3864-99-1	223-383-8	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
XIV	166	2-(2'-羟基-3'-异丁基-5'-叔丁基 苯基)苯并三唑 2-(2H-benzotriazol-2-yl)-4-(tert- butyl)-6-(sec-butyl)phenol(UV- 350)	36437-37-3	253-037-1	0.05
XIV	167	1,3-丙烷磺内酯 1,3-propanesultone	1120-71-4	214-317-9	0.05
XIV	168	全氟壬酸及其钠和铵盐 Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	0.05
XV	169	苯并(a)芘 Benzo[a]pyrene	50-32-8	200-028-5	0.05
XVI	170	双酚A (BPA) 4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8	0.05
XVI	171	十九氟癸酸 (PFDA) 及其钠盐 和铵盐 Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	206-400-3 / 221-470-5	0.05
XVI	172	4-(1,1-二甲基丙基)苯酚 (别名: 对叔戊基苯酚) p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.05
XVI	173	支链与直链的4-庚基酚(直链和/ 或支链的具有7个碳原子的烷基 链共价键在4位的苯酚, 囊括了 UVCB和定义明确的物质, 其中 包括任何单独异构体和/或它们的 组合) 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	/	/	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
XVII	174	全氟己基磺酸及其盐(PFHxS) Perfluorohexane-1-sulfonic acid and its salts	/	/	0.05
XVIII	175	屈 Chrysene	218-01-9	205-923-4	0.05
XVIII	176	苯并[a]蒽 Benz[a]anthracene	56-55-3	200-280-6	0.05
XVIII	177	硝酸镉 Cadmium nitrate	10325-94-7	233-710-6	0.005
XVIII	178	氢氧化镉 Cadmium hydroxide	21041-95-2	244-168-5	0.005
XVIII	179	碳酸镉 Cadmium carbonate	513-78-0	208-168-9	0.005
XVIII	180	德克隆[包括所有反式和顺式异构 体及其组合] 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1. 16,9.02,13.05,10]octadeca- 7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	/	/	0.05
XVIII	181	1,3,4-噻二唑烷-2,5-二硫酮, 甲 醛和 4-庚基苯酚的支链和直链 (RP-HP) 的反应产物[4-庚基苯 酚, 支链和直链含量≥0.1% w / w] Reaction products of 1,3,4- thiadiazolidine-2,5-dithione, formaldehyde and 4- heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	/	/	0.05
XIX	182	八甲基环四硅氧烷(D4) Octamethylcyclotetrasiloxane	556-67-2	209-136-7	0.05
XIX	183	十甲基环五硅氧烷 (D5) Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
XIX	184	十二甲基环六硅氧烷 (D6) Dodecamethylcyclhexasiloxane (D6)	540-97-6	208-762-8	0.05
XIX	185	铅 Lead	7439-92-1	231-100-4	0.005
XIX	186	四水八硼酸二钠 Disodium octaborate	12008-41-2	234-541-0	0.005
XIX	187	苯并[G,H,I]苊 Benzo[ghi]perylene	191-24-2	205-883-8	0.05
XIX	188	氢化三联苯 Terphenyl hydrogenated	61788-32-7	262-967-7	0.05
XIX	189	乙二胺 Ethylenediamine (EDA)	107-15-3	203-468-6	0.05
XIX	190	苯-1,2,4-三羧酸 1,2-酐 (偏苯三酸酐) (TMA) Benzene-1,2,4-tricarboxylic acid 1, 2-anhydride (trimellitic anhydride) (TMA)	552-30-7	209-008-0	0.05
XIX	191	邻苯二甲酸二环己酯 (DCHP) Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.05
XX	192	4,4'-(1,3-二甲基丁基)二苯酚 2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.05
XX	193	苯并(k)荧蒹 Benzo[k]fluoranthene	207-08-9	205-916-6	0.05
XX	194	荧蒹 Fluoranthene	206-44-0	205-912-4	0.05
XX	195	菲 Phenanthrene	85-01-8	201-581-5	0.05
XX	196	芘 Pyrene	129-00-0	204-927-3	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
XX	197	1,7,7-三甲基-3-(苯亚甲基)双环[2.2.1]庚-2-酮(3-亚苄基樟脑) 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	239-139-9	15087-24-8	0.05
XXI	198	2-甲氧基乙酸乙酯 2-methoxyethyl acetate	110-49-6	203-772-9	0.05
XXI	199	三(4-壬基苯基, 支链和直链)亚磷酸酯 Tris(4-nonylphenyl, branched and linear) phosphite	/	/	0.05
XXI	200	2,3,3,3-四氟-2-(七氟丙氧基)丙酸, 其盐类和酰卤(包括它们各自的异构体及其组合) 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides(covering any of their individual isomers and combinations thereof)	/	/	0.05
XXI	201	4-叔丁基苯酚 4-tert-butylphenol	98-54-4	202-679-0	0.05
XXII	202	邻苯二甲酸二异己酯 Diisohexyl phthalate	71850-09-4	276-090-2	0.05
XXII	203	2-苄基-2-二甲氨基-1-(4-吗啉苯基)丁酮 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	0.05
XXII	204	2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.05
XXII	205	全氟丁烷磺酸(PFBS)及其盐 Perfluorobutane sulfonic acid (PFBS) and its salts	/	/	0.05

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XXIII	206	1-乙烯基咪唑 1-Vinylimidazole	1072-63-5	214-012-0	0.05
XXIII	207	2-甲基咪唑 2-Methylimidazole	693-98-1	211-765-7	0.05
XXIII	208	对羟基苯甲酸丁酯 Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.05
XXIII	209	二正丁基双(乙酰丙酮基)锡 Dinbutylbis(pentane-2,4-dionato-0,0),tin	22673-19-4	245-152-0	0.05
XXIV	210	双(2-(2-甲氧基乙氧基)乙基)醚 (四乙二醇二甲醚) Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	205-594-7	0.05
XXIV	211	二月桂酸二辛基锡, 二辛基-, 双(椰油酰氧基)衍生物, 以及任何其他锡烷, 二辛基-, 双(脂肪酰氧基)衍生物。其中 C12 为脂肪酰氧基部分的主要碳原子数 Diocetyl tin dilaurate, stannane, dioctyl-bis(coco acyloxy) derivs., and any othersstannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	--	--	0.05
XXV	212	1,4-二氧己环 1,4-dioxane	123-91-1	204-661-8	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
XXV	213	2,2-双(溴甲基)-1,3-丙二醇 (BMP) 2,2-二甲基丙烷-1-醇, 三溴衍生 物/ 3-溴-2,2- 双(溴甲基)-1-丙醇 (TBNPA) 2,3-二溴-1-丙醇 (2,3-DBPA) 2,2- bis(bromomethyl)propane1,3- diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/ 3-bromo-2,2-bis(bromomethyl) -1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3- DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	221-967-7 253-057-0 202-480-9	0.05
XXV	214	2-(4-叔丁基苄基)丙醛以及其立 体异构体 2-(4-tert- butylbenzyl)propionaldehyde and its individual stereoisomers	--	--	0.05
XXV	215	4,4'- (1-甲基亚丙基) 双酚; (双酚 B) 4,4'-(1- methylpropylidene)bisphenol; (bisphenol B)	77-40-7	201-025-1	0.05
XXV	216	戊二醛 Glutaral	111-30-8	203-856-5	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
XXV	217	中链氯化石蜡 (MCCP) [UVCB 物质, 由≥80% 的直链氯代烷烃组成, 碳链长度在 C14 到 C17 之间] Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	--	--	0.05
XXV	218	原硼酸, 钠盐 Orthoboric acid, sodium salt	13840-56-7	237-560-2	0.005
XXV	219	来自低聚反应的具有 C12 富集的支链或直链烷基链的苯酚烷基化产物(主要在对位), 涵盖任何单独的异构体和 /或其组合(PDDP) Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and / Or combinations thereof (PDDP)	--	--	0.05
XXVI	220	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]二环[2.2.1]庚-2-酮包括各个异构体和/或其组合(4-MBC) (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo [2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	--	--	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
XXVI	221	2,2'-亚甲基双-(4-甲基-6-叔丁基苯酚) 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	204-327-1	0.05
XXVI	222	S-S(三环[5.2.1.0' 2,6]葵-8(或 9)基 O-(异丙基或异丁基或 2-乙基己基)O-(异丙基或异丁基或 2-乙基己基)二硫代磷酸酯 T-S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	401-850-9	0.05
XXVI	223	乙烯基三(2-甲氧基乙氧基)硅烷 tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	0.05
XXVII	224	N-羟甲基丙烯酰胺 N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	0.05
XXVIII	225	1,2-双(2,4,6-三溴苯氧基)乙烷 1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	253-692-3	0.05
XXVIII	226	2,2',6,6'-四溴-4,4'-异亚丙基二苯酚, 四溴双酚 A 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	201-236-9	0.05
XXVIII	227	4,4'-磺酰二酚, 双酚 S 4,4'-sulphonyldiphenol	80-09-1	201-250-5	0.05
XXVIII	228	偏硼酸钡** Barium diboron tetraoxide**	13701-59-2	237-222-4	0.005
XXVIII	229	双(2-乙基己基)四溴邻苯二甲酸酯覆盖任何单个异构体和/或其组合 Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	--	--	0.05
XXVIII	230	4-羟基苯甲酸异丁酯 Isobutyl 4-hydroxybenzoate	4247-02-3	224-208-8	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
XXVIII	231	三聚氰胺 Melamine	108-78-1	203-615-4	0.05
XXVIII	232	全氟庚酸及其盐 Perfluoroheptanoic acid and its salts	--	--	0.05
XXVIII	233	2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)吗啉和 2,2,3,3,5,5,6,6-八氟-4-(七氟丙基)吗啉的反应物质 reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	--	473-390-7	0.05
XXIX	234	二苯基（2,4,6-三甲基苯甲酰基）氧化膦，光引发剂 TPO Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	278-355-8	0.05
XXIX	235	双（4-氯苯基）砜 Bis(4-chlorophenyl) sulphone	80-07-9	201-247-9	0.05
XXX	236	2-苯丙烯和苯酚的低聚物以及烷基化反应产物 Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	--	700-960-7	0.05
XXX	237	布美三唑，紫外线吸收剂 UV-326 Bumetrizole	3896-11-5	223-445-4	0.05
XXX	238	2-(二甲基氨基)-2-[(4-甲基苯基)甲基]-1-[4-(吗啉-4-基)苯基]丁-1-酮,光引发剂 379 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	438-340-0	0.05

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批次 Batch	序号 Code	项目 Test Item	CAS 号 CAS No.	EC 号 EC No.	RL (%)
XXX	239	2-(2H-苯并三唑-2-基)-4-(1,1,3,3-四甲基丁基)苯酚, 奥克三唑,紫外线吸收剂 UV-329 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147-75-9	221-573-5	0.05
XXX	240	2,4,6-三叔丁基苯酚 2,4,6-tri-tert-butylphenol	732-26-3	211-989-5	0.05
XXXI	241	过氧化二异丙苯 Bis(α,α-dimethylbenzyl)peroxide	80-43-3	201-279-3	0.05
XXXI	242	磷酸三苯酯 Triphenyl phosphate	115-86-6	204-112-2	0.05
XXXII	243	6-[ (C10-C13) -烷基- (支链, 不饱和) -2,5-二氧吡咯烷-1-基] 己酸 6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	701-118-1	0.05
XXXII	244	O,O,O-三苯基硫代磷酸酯 O,O,O-triphenyl phosphorothioate	597-82-0	209-909-9	0.05
XXXII	245	八甲基三硅氧烷 Octamethyltrisiloxane	107-51-7	203-497-4	0.05
XXXII	246	全氟三丙胺 Perfluamine	338-83-0	206-420-2	0.05
XXXII	247	三苯基硫代磷酸酯和叔丁基化苯基行生物的反应物 reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	421-820-9	0.05

备注 Note

1. \*该结果由三丁基锡（测试仪器：GC-MS）的测试结果换算得出。/The substance is calculated by using the test results of Tributyl Tin (testing instrument: GC-MS).
2. \*\*该结果由所选的元素(如砷、铅、钴、钠、硼、六价铬等（测试仪器：ICP-OES）)的测试结果换算得出。/The substance is calculated by using the test results of element (Ex. Arsenic, Lead, Cobalt, Sodium, Boron or Cr (VI) respectively (testing instrument: ICP-OES)).

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3. \*\*\*所有陶瓷纤维耐火材料在附录VI, 索引号 650-017-00-8 条例中关于化学物质和混合物的分类, 标识及包装规定, 即为 CLP 条例(Regulation (EC) No 1272/2008)。/All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packing of Chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).
4. \*\*\*\*此四种物质只在其含有致癌成分米氏酮 (EC 号: 202-027-5) 或米氏碱 (EC Number: 202-959-2) 的浓度 $\geq 0.1\%$  (w/w), 才被列为 SVHC。/The substance does only fulfil the criteria of REACH Art. 57 (a) if it contains Michler's ketone (EC Number: 202-027-5) or Michler's base (EC Number: 202-959-2) in a concentration  $\geq 0.1\%$  (weight / weight).
5. 依据 64/548/EEC 和(EC) No 1907/2006 的条款, 分类的定义列于本报告附录 A 中。/Definition of classification is listed on Appendix A of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006.

## 附录 A Appendix A

分类	67/548/EEC 和(EC) No1907/2006 法规中的定义
Classification	Definition under 67/548/EEC AND Regulation (EC) No1907/2006
Carcinogen Category 1	: 已知的致癌物质。有足够的证据证明, 人体暴露于该物质和癌症的发展之间存在因果关系。 Substances known to be carcinogenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and the development of cancer.
Carcinogen Category 2	: 应被视为致癌物的物质。有足够的证据证明, 人体暴露于该物质会导致癌症的发生, 一般依据: - 恰当的长期动物研究 - 其他相关形式 Substances which should be regarded as if they are carcinogenic to man. There is sufficient evidence to provide a strong presumption that human exposure to a substance may result in the development of cancer. Generally on the basis of: - appropriate long-term animal studies - other relevant information.
Mutagen Category 1	: 已知的基因突变物质。有足够的证据证明, 人体暴露于该物质和遗传性基因损害之间存在因果关系。 Substances known to be mutagenic to man. There is sufficient evidence to establish a causal association between human exposure to substances and heritable genetic damage.
Mutagen Category 2	: 应被视为基因突变物的物质。有足够的证据证明, 人体暴露于该物质多数会导致的遗传性的损伤, 一般依据: - 恰当的长期动物研究 - 其他相关形式 Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of:

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**Toxic to  
Reproduction  
Category 1**

- appropriate animal studies
- other relevant information

已知的损害人类生育能力的物质。有足够的证据证明, 人体暴露于该物质和生育能力受损之间的存在因果关系。

已知会导致人体内发育毒性的物质。有足够的证据证明, 人体暴露于该物质和继而产生的毒性影响之间的存在因果关系。

Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility.

Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny.

**Toxic to  
Reproduction  
Category 2**

应被视为可能会损害人类生育能力的物质。有足够的证据证明, 人体暴露于该物质可能会导致人类生育能力的损伤, 一般依据:

- 在没有毒性作用下损害生育能力在动物研究中证据确凿, 或, 与其他毒性作用剂量相同的情况下损害生育能力的证据确凿

- 其他相关形式

应被视为可能会导致人体内发育毒性的物质。有足够的证据证明, 人体暴露于该物质可能会导致人体内的发育毒性, 一般依据:

- 在没有已标识母体毒性作用下, 在恰当的动物研究中清晰的观察到发育毒性, 或, 在相同剂量其他母体毒性作用的情况下, 且非其他母体毒性二次作用时, 清晰观察到发育毒性。

- 其他相关形式

Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility in the basis of:

- clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects

- other relevant information

Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of:

- clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects.

- other relevant information.

**PBT & vPvB**

持久性的、生物聚集的和有毒的物质 (PBT) 和特别持久的、特别生物聚集的物质 (vPvB) 对化学品的安全管理带来了特别的挑战。对这些物质存在于环境中, 无法确定足够可靠的“安全”浓度。

Substances which are persistent, bioaccumulative and toxic (PBT) or very

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persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient reliability.

## 备注 Note

1. 本报告所涉及的关于 247 种高关注物质的化学分析是基于根据欧洲化学品管事局于 2008 年 10 月 28 日, 2010 年 01 月 13 日, 2010 年 03 月 30 日, 2010 年 06 月 18 日, 2010 年 12 月 15 日, 2011 年 06 月 20 日, 2011 年 12 月 19 日, 2012 年 06 月 18 日, 2012 年 12 月 19 日, 2013 年 06 月 20 日, 2013 年 12 月 16 日, 2014 年 6 月 16 日, 2014 年 12 月 17 日, 2015 年 06 月 15 日, 2015 年 12 月 17 日, 2016 年 06 月 20 日, 2017 年 01 月 12 日, 2017 年 07 月 10 日, 2018 年 01 月 15 日, 2018 年 06 月 27 日, 2019 年 01 月 15 日, 2019 年 07 月 16 日, 2020 年 01 月 16 日, 2020 年 06 月 16 日, 2021 年 01 月 19 日, 2021 年 07 月 08 日, 2022 年 01 月 17 日, 2022 年 06 月 10 日, 2023 年 01 月 17 日, 2023 年 06 月 14 日, 2024 年 01 月 23 日, 2024 年 06 月 27 日, 2024 年 11 月 07 日和 2025 年 01 月 21 日公布的候选清单, 公布的候选清单, 利用现有的分析技术所完成的。具体参考

[http://echa.europa.eu/chem\\_data/candidate\\_list\\_en.asp](http://echa.europa.eu/chem_data/candidate_list_en.asp) 这是一个最新版本的清单, 以及背景资料与相关的义务。

The chemical analysis of 247 SVHC is performed by means of currently available analytical techniques against the list publishes by ECHA on Oct. 28, 2008, Jan. 13, 2010, Mar. 30, 2010, Jun. 18, 2010, Dec. 15, 2010, Jun. 20, 2011, Dec. 19, 2011, Jun. 18, 2012, Dec. 19, 2012, Jun. 20, 2013 Dec. 16, 2013, Jun. 16, 2014, Dec. 17, 2014, Jun. 15, 2015, Dec. 17, 2015, Jun. 20, 2016, Jan. 12, 2017, Jul. 10, 2017, Jan. 15, 2018, Jun. 27, 2018, Jan. 15, 2019, Jul. 16, 2019, Jun. 16, 2020, Jan. 19, 2021, Jul. 08, 2021, Jan. 17, 2022, Jun. 10, 2022, Jan. 17, 2023, Jun. 14, 2023, Jan. 23, 2024, Jun. 27, 2024, Nov. 07, 2024 and Jan. 21, 2025 shall refer to [http://echa.europa.eu/chem\\_data/candidate\\_list\\_en.asp](http://echa.europa.eu/chem_data/candidate_list_en.asp) This is an up-to-date version of the list as well as background information on is and related obligations.

2. 根据欧盟第 1907/2006 (EC) 号法规, 如果满足以下两个条件, 如果物质符合第 57 条中的标准并根据第 59 条第一款被确定, 物品的任何制造商或进口商应根据第 7 条第 4 款向欧盟化学品管理局进行通报: (a) 物质在物品中的总含量超过 1 吨/年/生产商或进口商; (b) 物质在物品中的总含量以质量分数计超过 0.1% 的浓度。

In accordance with regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the condition in Article 57 and is identified in accordance with Article 59(1) of the regulation, if (a) the substance is present in these articles in quantities totalling over one tonne per producer or importer per year and (b) the substance is present in those articles above & concentration of 0.1% weight by weight (w/w).

3. 欧盟第 1907/2006 (EC) 号法规第 33 条规定, 含有满足第 57 条中的标准并根据第 59 条第一款被确定且质量分数大于 0.1% 的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息, 以使物品使用安全, 这些信息至少包括物质的名称。

Article 33 of Regulation (EC) No.1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information available to the supplier to allow safe use of the article including as a minimum the name of that substance.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



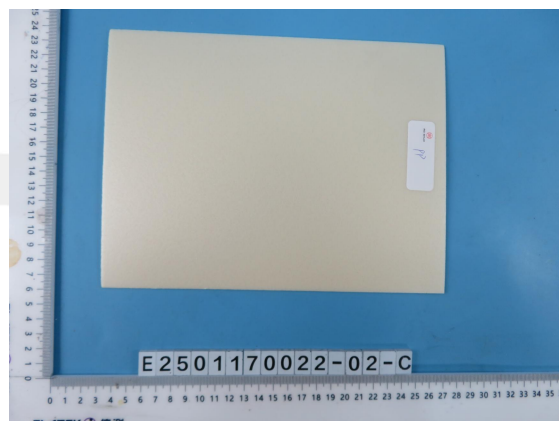
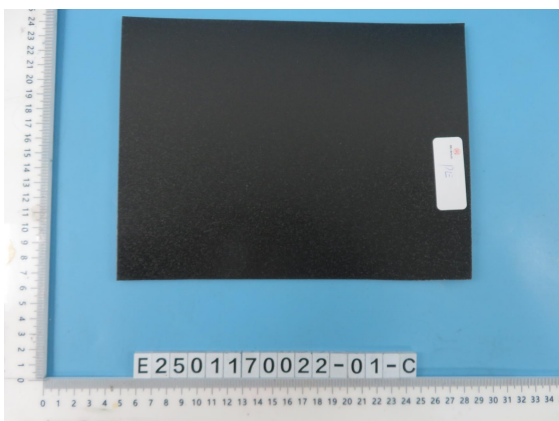
# 检测报告

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## 样品照片 Sample Photos



\*\*\* 报告结束 \*\*\*  
\*\*\* End of Report \*\*\*

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# 检测报告

编号: ESZ2501170022C00201R

日期: 2025 年 01 月 23 日

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## 声明 Statement

1. 本检测报告首页所列信息中除样品来源、接样日期、检测日期、检测结果和检测结论外, 均由委托方提供, 委托方对样品的代表性和资料的真实性负责, 本实验室不承担任何相关责任。

The information as listed on the first page of this test report was all provided by the client except the sample from, date received, test period, test results and test conclusion. The client shall be responsible for the representativeness of sample and authenticity of materials, for which EMTEK shall bear no responsibilities.

2. 本检测报告以实测值进行符合性判定, 未考虑不确定度所带来的风险, 特别约定、标准或规范中有明确规定的除外。此种判定方式所带来的风险由客户自行承担, 本实验室不承担相关责任。

The judgment method of determining the conformity in this test report is according to the measured value without considering the risk caused by uncertainty, unless otherwise clearly stipulated in special agreement, standard or specification. The client shall assume the risk caused by the judgment method, and EMTEK shall not bear related responsibilities.

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The test report is effective only with both signature and specialized stamp. Without written approval of EMTEK, this report can't be reproduced in full or in part.

4. 本检测报告的检测结果仅对送测样品负责, 未加盖资质认定标志的检测报告不对社会具有公证证明作用, 对于检测数据、结果的使用, 所产生的直接或间接损失及一切法律后果, 本实验室不承担任何经济和法律责任。

This test data is only responsible for the tested sample. The data and results provided by the report without CMA accreditation are not to prove to the society, and EMTEK is not responsible for any economic and legal responsibility for the use of the test data, the direct or indirect losses resulting from the use of the test and all legal consequences.

5. 本检测报告中检测项目标注有下划线则该项目不在本实验室资质认定能力范围内, 该项目检测结果仅作为客户委托、科研、教学或内部质量控制等目的使用。

The underlined test item in the report is out of the scope of CMA accreditation. The test result only used for client's requirement, scientific researching, teaching or internal quality control.

6. 其它声明请查阅报告页脚及书面报告末页。

For other statements, please refer to the footer of the report.



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1. 苏州市信测标准技术服务有限公司（以下简称[本公司]）为提供符合下述条款的测试和报告，而接受有关样品和货品。本公司基于下述条款提供服务，下述条款为本公司与申请服务的个人、企业或公司（以下简称[客户]）的协议。  
All samples and goods are accepted by the EMTEK(Suzhou) Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
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Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. 除非相关政府部门、法律或法院要求，否则未经公司预先书面同意，本公司毋庸，也并无义务到法院对有关报告作证。  
The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. 如果本公司确定报告被不当地使用，本公司保留撤回报告的权利，并有权要求其它适当的额外赔偿。  
In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. 本公司接受样品进行测试的前提是，该测试报告不能作为针对本公司法律行动的依据。  
Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. 如因使用本公司中心任何报告内的资料，或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害，本公司概不负责。  
The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. 若需要在法院审理程序或者仲裁过程中使用测试报告，客户必须在提交测试样品前将该意图告知本公司。  
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8. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的，检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限，数据和信息将被处理掉。任何情况下，本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害，本公司在任何情况下也不必承担任何损害，包括（但不限于）补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权（包括疏忽）、产品责任或其他原因的惩罚性损害。  
Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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