

测试报告号码:
Test Report No.: 244316769b 001

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客户名称:
Client: 浙江优肯包装有限公司
ZHEJIANG UKPACK PACKAGING CO., LTD
浙江省余姚低塘街道汤家闸村工业区
Tangjiazha Village Industrial Park, Ditang Street, Yuyao City, Zhejiang

测试样品:
Test item(s): 塑料瓶子
plastic bottle

样品接收状态
Condition at delivery: 测试样品完整无损
Test item complete and undamaged.

收样日期:
Sample Receiving date: 2024-03-10

测试周期:
Testing Period: 2024-03-10 to 2024-03-16

测试地点
Place of testing: 上海化学实验室
Chemical laboratory Shanghai

测试要求/Test specification: 测试结果/ Test result:

客户要求/ Customer's requirement:

1. Screening of substances of very high concern (SVHC) subject to the candidate list by European Chemical Agency (ECHA) according to Regulation (EC) No. 1907/2006 of REACH and its amendments

Please refer to page 4-14 /
详情请见第 4-14 页

根据法规 (EC) No. 1907/2006 及其修正案筛选欧洲化学局 (ECHA) 候选名单中的高度关注物质 (SVHC)

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.



2024-03-22

Eric Xu / Project Engineer

Date

Name/Position

测试结果依据所进行的测试种类和范畴出具。该测试报告只对相关测试样品负责。未经测试中心许可不可复制报告，亦不能在该产品或者类似产品上使用任何安全标识。 Test result is drawn according to the kind and extent of tests performed.

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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材料清单/ Material list:

材料编号/ No.	材料/Material	颜色/Color	位置/ Location
M001	塑料/Plastic	白色/white	根据图片/ refer to photo
M002	塑料/Plastic	白色/white	根据图片/ refer to photo
M003	塑料/Plastic	透明/transparent	根据图片/ refer to photo
M004	塑料/Plastic	白色/white	根据图片/ refer to photo
M005	塑料/Plastic	白色/white	根据图片/ refer to photo
M006	塑料/Plastic	透明/transparent	根据图片/ refer to photo
M007	塑料/Plastic	白色/white	根据图片/ refer to photo
M008	塑料/Plastic	白色/white	根据图片/ refer to photo
M009	塑料/Plastic	透明/transparent	根据图片/ refer to photo
M010	塑料/Plastic	白色/white	根据图片/ refer to photo
M011	塑料/Plastic	白色/white	根据图片/ refer to photo
M012	塑料/Plastic	白色/white	根据图片/ refer to photo
M013	塑料/Plastic	白色/white	根据图片/ refer to photo
M014	塑料/Plastic	白色/white	根据图片/ refer to photo
M015	塑料/Plastic	白色/white	根据图片/ refer to photo
M016	塑料/Plastic	透明/transparent	根据图片/ refer to photo
M017	金属/ Metal	银色/ Silver	根据图片/ refer to photo
M018	金属/ Metal	银色/ Silver	根据图片/ refer to photo
M019	塑料/Plastic	透明/transparent	根据图片/ refer to photo
M020	塑料/Plastic	透明/transparent	根据图片/ refer to photo
M021	塑料/Plastic	蓝色/blue	根据图片/ refer to photo
M022	金属/ Metal	银色/ Silver	根据图片/ refer to photo
M023	塑料/Plastic	透明/transparent	根据图片/ refer to photo

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M024	塑料/Plastic	白色/white	根据图片/ refer to photo
M025	塑料/Plastic	透明/transparent	根据图片/ refer to photo
M026	塑料/Plastic	蓝色/blue	根据图片/ refer to photo
M027	金属/ Metal	银色/ Silver	根据图片/ refer to photo
M028	塑料/Plastic	白色/white	根据图片/ refer to photo
M029	塑料/Plastic	透明/transparent	根据图片/ refer to photo
M030	塑料/Plastic	透明/transparent	根据图片/ refer to photo
M031	塑料/Plastic	透明/transparent	根据图片/ refer to photo

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1. Screening of Substances of Very High Concern (SVHC) subject to the Candidate List by European Chemical Agency (ECHA) according to Regulation (EC) No. 1907/2006 of REACH and its amendments.

根据法规 (EC) No. 1907/2006 及其修正案筛选欧洲化学局 (ECHA) 候选名单中的高度关注物质 (SVHC)

Conclusion:结论

Conclusion			
Product Location 产品部位	Acc. to Screening of Substances of Very High Concern (SVHC) in Candidate List for authorization published by European Chemicals Agency (ECHA) according to Regulation (EC) No. 1907/2006 of REACH and its amendments, the detected SVHC concentration in components level is/依据欧盟法庭针对物品中高关注物质的判决的授权清单和候选清单所检测出的高度关注物质含量如下	Obligation of Importer(*) (For article) 进口商义务	Detected Substance (if any) 检出物质
plastic bottle 塑料瓶子	<0.1%	Not necessary/非必须	--

(For article/物品)

(*) To communicate information down the supply chain according to article. 33 of REACH. **OR** 依照 REACH 法规第 33 条需要向供应链告知或者:

1. Notification to ECHA, if the quantities of SVHC in the produced/imported articles are above 1 ton in total per year per company. /如果一家公司生产/进口的产品中检出的高度关注物质超过每年一吨, 需要向ECHA通报。
2. Provide sufficient information to ensure safe use of the article and, as a minimum, include the name of the substance, to their customers and on request to consumers within 45 days of the receipt of this request. /如果消费者有要求, 有义务在45天内向消费者提供充分的信息以确保该产品的使用安全, 信息至少需包含物质的名称。

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Test results/测试结果
Screening of substances of very high concern (SVHC) subject to the candidate list by European Chemical Agency (ECHA) according to Regulation (EC) No. 1907/2006 of REACH and its amendments.

根据法规 (EC) No. 1907/2006 及其修正案筛选欧洲化学局 (ECHA) 候选名单中的高度关注物质 (SVHC)

- Test Method 测试方法:
- 1) SVOC: organic solvent extraction, determination by GC-MS/ECD/ 半挥发性有机物: 有机溶剂萃取, 气相质谱联用仪扫描法/气相色谱电子捕获检测器测定
 - 2) VOC: organic solvent extraction, determination by GC-MS/ 挥发性有机物: 有机溶剂萃取, 气相质谱联用仪扫描法测定
 - 3) VVOC: headspace-GC/MS analysis/ 极易挥发性有机物: 顶空-气相质谱联用仪扫描法分析
 - 4) non-VOC: organic solvent extraction, determination by LC-MS/MS/ 非挥发性有机物, 有机溶剂萃取, 液相色谱-串联质谱扫描法测定
 - 5) inorganics: acid digestion, determination by ICP-OES/ 无机物: 酸消解, 电感耦合等离子体发射光谱法分析测定

Test No.: 测试编号	T001	T002	T003	T004
Material No.: 材料编号	M001 + M002 + M003 + M004 + M005 + M006 + M007 + M008 + M009 + M010	M011 + M012 + M013 + M014 + M015 + M016 + M019 + M020 + M021 + M023	M024 + M025 + M026 + M028 + M029 + M030 + M031	M017 + M018 + M022 + M027
Result (%): 测试结果	<RL	<RL	<RL	<RL

Abbreviation/缩写: < = less than / 表示少于
 RL = Reporting Limit / 表示报告检出限
 % = Percentage / 表示百分比

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Remark/备注:

 (*1) The reporting limit for each individual SVHC in Candidate List by ECHA:
 ECHA候选名单中每个高度关注物质的报告检出限如下:

	Substances/物质	CAS No./ CAS 号码	Reporting Limit/ 报告检出限
1	4,4'- Diaminodiphenylmethane (MDA) / 4, 4' -二氨基二苯甲烷	101-77-9	0.01%
2	Benzyl butyl phthalate (BBP) / 邻苯二甲酸丁酯苯甲酯	85-68-7	0.01%
3	Bis (2-ethylhexyl)phthalate (DEHP) / 邻苯二甲酸二 (2-乙基己基) 酯	117-81-7	0.01%
4	Dibutyl phthalate (DBP) / 邻苯二甲酸二丁基酯	84-74-2	0.01%
5	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane / 六溴环十二烷	25637-99-4 / 3194-55-6 / 134237-50-6 / 134237-51-7 / 134237-52-8	0.01%
6	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene) / 二甲苯麝香	81-15-2	0.01%
7	2,4-Dinitrotoluene (2,4-DNT) / 2,4-二硝基甲苯	121-14-2	0.01%
8	Diisobutyl phthalate (DIBP) / 邻苯二甲酸二异丁酯	84-69-5	0.01%
9	Tris(2-chloroethyl)phosphate / 三 (2-氯乙基) 磷酸酯	115-96-8	0.01%
10	Diarsenic pentaoxide (*3) / 五氧化二砷	1303-28-2	0.01%
11	Diarsenic trioxide (*3) / 三氧化二砷	1327-53-3	0.01%
12	Lead chromate (*3)(*4) / 铬酸铅	7758-97-6	0.01%
13	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (*3)(*4) / 颜料红 104	12656-85-8	0.01%
14	Lead sulfochromate yellow (C.I. Pigment Yellow 34) (*3) / 颜料黄 34	1344-37-2	0.01%
15	Trichloroethylene / 三氯乙烯	79-01-6	0.01%
16	Chromium trioxide (*4) / 三氧化铬	1333-82-0	0.01%
17	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: / 氧化铬及其聚合物形成的酸 Chromic acid / 铬酸 Dichromic acid / 重铬酸 Oligomers of chromic acid and dichromic acid (*4) / 重铬酸聚合物	7738-94-5 / 13530-68-2	0.01%
18	Sodium dichromate (*3) / 重铬酸钠水合物	7789-12-0 / 10588-01-9	0.01%
19	Potassium dichromate (*4) / 重铬酸钾	7778-50-9	0.01%
20	Ammonium dichromate (*4) / 重铬酸铵	7789-09-5	0.01%
21	Potassium chromate (*4) / 铬酸钾	7789-00-6	0.01%
22	Sodium chromate (*4) / 铬酸钠	7775-11-3	0.01%
23	Formaldehyde, oligomeric reaction products with aniline (technical MDA) (*11) / 甲醛苯胺聚合物	25214-70-4	0.01%
24	1,2-Dichloroethane / 1,2-二氯乙烷	107-06-2	0.01%
25	Bis(2-methoxyethyl) ether / 二乙二醇二甲醚	111-96-6	0.01%
26	Arsenic acid (*3) / 砷酸	7778-39-4	0.01%
27	2,2'-dichloro-4,4'-methylenedianiline (MOCA) / 4,4'-二氨基-3,3'-二氯二苯甲烷	101-14-4	0.01%
28	Dichromium tris(chromate) (*4) / 铬酸铬	24613-89-6	0.01%
29	Strontium chromate (*4) / 铬酸锶	7789-06-2	0.01%
30	Potassium hydroxyoctaoxodizincatedichromate (*4) / 氢氧化铬酸锌钾	11103-86-9	0.01%

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31	Pentazinc chromate octahydroxide (*4) / 锌黄	49663-84-5	0.01%
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(*2) The reporting limit for each individual SVHC in Candidate List by ECHA:

每个高度关注物质的报告检出限根据欧洲化学品管理局颁布的候选清单如下:

	Substances/物质	CAS No./CAS 号码	Reporting Limit/ 报告检出限
32	Anthracene / 蒽	120-12-7	0.01%
33	Bis(tributyltin) oxide (TBTO) (*3) (*5) / 氧化双三丁基锡	56-35-9	0.01%
34	Triethyl arsenate (*3) / 三乙基砷酸盐	15606-95-8	0.01%
35	Lead hydrogen arsenate (*3) / 砷酸氢铅	7784-40-9	0.01%
36	Cobalt(II) dichloride (*3) / 二氯化钴	7646-79-9	0.01%
37	Acrylamide / 丙烯酰胺	79-06-1	0.01%
38	Anthracene oil (*7) / 蒽油	90640-80-5	0.01%(*8)
39	Anthracene oil, anthracene paste, distn. lights (*7) / 蒽油, 蒽糊, 轻油	91995-17-4	
40	Anthracene oil, anthracene paste, anthracene fraction (*7) / 蒽油, 蒽糊, 蒽馏分离液	91995-15-2	
41	Anthracene oil, anthracene-low (*7) / 蒽油, 含蒽量少	90640-82-7	
42	Anthracene oil, anthracene paste (*7) / 蒽油, 蒽糊	90640-81-6	
43	Pitch, coal tar, high temperature (*7) / 沥青, 煤焦油, 高温	65996-93-2	
44	Boric acid (*3) (*6) / 硼酸	10043-35-3 / 11113-50-1	0.01%
45	Disodium tetraborate, anhydrous (*3) (*6) / 无水四硼酸二钠	1303-96-4 / 1330-43-4 / 12179-04-3	0.01%
46	Tetraboron disodium heptaoxide, hydrate (*3) (*6) / 水合七氧四硼酸二钠	12267-73-1	0.01%
47	2-Methoxyethanol / 2-乙二醇甲醚	109-86-4	0.01%
48	2-Ethoxyethanol / 2-乙氧基乙醇	110-80-5	0.01%
49	Cobalt(II) sulphate (*3) / 硫酸钴(II)	10124-43-3	0.01%
50	Cobalt(II) dinitrate (*3) / 硝酸钴(II)	10141-05-6	0.01%
51	Cobalt(II) carbonate (*3) / 碳酸钴(II)	513-79-1	0.01%
52	Cobalt(II) diacetate (*3) / 醋酸钴(II)	71-48-7	0.01%
53	Alkanes C10-C13, chloro (Short Chain Chlorinated Paraffins) (SCCP) / 短链氯化石蜡	85535-84-8	0.01%
54	2-Ethoxyethyl acetate / 2-乙氧基乙酸乙酯	111-15-9	0.01%
55	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) / 1,2-苯二甲酸二(C7-11 支链与直链)烷基(醇)酯	68515-42-4	0.01%
56	Hydrazine / 肼	302-01-2 / 7803-57-8	0.01%
57	1-Methyl-2-pyrrolidone (NMP) / 1-甲基-2-吡咯烷酮	872-50-4	0.01%
58	1,2,3-Trichloropropane / 1,2,3-三氯丙烷	96-18-4	0.01%
59	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) / 邻苯二甲酸二(C6-8 支链与直链)烷基酯, 富 C7	71888-89-6	0.01%
60	Aluminosilicate Refractory Ceramic Fibres (RCF) (*9) / 硅酸铝, 耐火陶瓷纤维	-	0.01%
61	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) (*9) / (Zr-RCF) 氧化锆硅酸铝, 耐火陶瓷纤维	-	0.01%
62	Bis(2-methoxyethyl) phthalate / 邻苯二甲酸二甲氧乙酯	117-82-8	0.01%
63	2-Methoxyaniline, o-Anisidine / 邻甲氧基苯胺	90-04-0	0.01%
64	4-(1,1,3,3-tetramethylbutyl)phenol / 对特辛基苯酚	140-66-9	0.01%
65	Calcium arsenate (*3) / 砷酸钙	7778-44-1	0.01%
66	Trilead diarsenate (*3) / 砷酸铅	3687-31-8	0.01%

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	Substances/物质	CAS No./CAS 号码	Reporting Limit/ 报告检出限
67	N,N-dimethylacetamide (DMAC) / 二甲基乙酰胺	127-19-5	0.01%
68	Phenolphthalein / 酚酞	77-09-8	0.01%
69	Lead dipicrate (*3) / 苦味酸铅	6477-64-1	0.01%
70	Lead diazide, Lead azide (*3) / 叠氮化铅	13424-46-9	0.01%
71	Lead styphnate (*3) / 收斂酸铅	15245-44-0	0.01%
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme) / 1,2-二(2-甲氧基乙氧基)乙烷 (三甘醇二甲醚)	112-49-2	0.01%
73	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME) / 1,2-二(2-甲氧基乙氧基)乙 25637-99-4 烷 (三甘醇二甲醚)	110-71-4	0.01%
74	Diboron trioxide (*3) (*6) / 三氧化二硼	1303-86-2	0.01%
75	Formamide / 甲酰胺	75-12-7	0.01%
76	Lead(II) bis(methanesulfonate) (*3) / 甲基磺酸铅	17570-76-2	0.01%
77	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC) / 异氰尿酸三缩水甘油酯	2451-62-9	0.01%
78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6- (1H,3H,5H)-trione (β-TGIC) / 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	59653-74-6	
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone), MK / 4,4'-二(N,N-二甲氨基)二苯甲酮(四甲基米氏酮)	90-94-8	0.01%
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base), RMK / N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(四乙基米氏酮)	101-61-1	0.01%
81	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202- 027-5) or Michler's base (EC No. 202-959-2)] (*10) / 碱性蓝 26	2580-56-5	0.01%
82	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*10) / 结晶紫 (4-(双(P-(二甲氨基)苯基)亚甲基)-2,5-环己烯基-1-基 铵	548-62-9	
83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*10) / 4,4'-二[(二甲氨基)苯基]-4-甲氨基苯甲醇	561-41-1	
84	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1- methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*10) / α, α -二[4-(二甲氨基)苯基]-4-苯基氨基-1-萘甲醇(*11)	6786-83-0	
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE) / 十溴联苯醚	1163-19-5	0.01%
86	Pentacosfluorotridecanoic acid / 全氟十三酸	72629-94-8	0.01%
87	Tricosfluorododecanoic acid / 全氟十二酸	307-55-1	0.01%
88	Henicosfluoroundecanoic acid / 全氟十一酸	2058-94-8	0.01%
89	Heptacosfluorotetradecanoic acid / 全氟十四酸	376-06-7	0.01%
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (OPEO) [covering well-defined substances and UVCB substances, olymers and homologues] / 4-(1,1,3,3-四甲基丁基)苯酚, 乙氧基 - 以及所有被定义的物质, 未知成分或可变成成分的物质, 聚合物和同系物	-	0.01%
91	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) (*12) / 偶氮二甲酰胺	123-77-3	0.05%
92	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a	-	0.01%

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	carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] / 分支或线性的壬基酚, 包括含有9个碳烷基链的所有独立的同分异构体和所有含有线性或分支9个碳烷基链的UVCB物质		
93	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry] / 六氢苯二甲酸酐	85-42-7 / 13149-00-3 / 14166-21-3	0.01%
94	Hexahydromethylphthalic anhydride (MHHPA) [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry] / 甲基六氢苯酐	25550-51-0 / 19438-60-9 / 48122-14-1 / 57110-29-9	0.01%
95	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear / 支链和直链 1,2-苯二羧二戊酯	84777-06-0	0.01%
96	Diisopentylphthalate / 邻苯二甲酸二异戊酯	605-50-5	
97	N-pentyl-isopentylphthalate / 邻苯二甲酸正戊基异戊基酯	776297-69-9	
98	Methoxyacetic acid (MAA) / 甲氧基乙酸	625-45-6	0.01%
99	N,N-dimethylformamide / N,N-二甲基甲酰胺	68-12-2	0.01%
100	1,2-Diethoxyethane / 乙二醇二乙醚	629-14-1	0.01%
101	Diethyl sulphate / 硫酸二乙酯	64-67-5	0.01%
102	Dimethyl sulphate / 硫酸二甲酯	77-78-1	0.01%
103	N-methylacetamide / N-甲基乙酰胺	79-16-3	0.01%
104	1-bromopropane (n-propyl bromide) / 正丙基溴	106-94-5	0.01%
105	Furan / 呋喃	110-00-9	0.01%
106	Methyloxirane (Propylene oxide) / 环氧丙烷	75-56-9	0.01%
107	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine / 3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷	143860-04-2	0.01%
108	Dibutyltin dichloride (DBTC) (*3) / 二氯二丁基锡	683-18-1	0.01%
109	Dinoseb (6-sec-butyl-2,4-dinitrophenol) / 2-(1-甲基丙基)-4,6-二硝基苯酚	88-85-7	0.01%
110	4,4'-methylenedi-o-toluidine / 4,4'-二氨基-3,3'-二甲基联苯基甲烷	838-88-0	0.01%
111	4,4'-oxydianiline and its salts / 4,4'-二氨基二苯醚	101-80-4	0.01%
112	4-Aminoazobenzene / 4,4'-二氨基二苯醚	60-09-3	0.01%
113	4-methyl-m-phenylenediamine (toluene-2,4-diamine) / 2,4-二氨基甲苯	95-80-7	0.01%
114	6-methoxy-m-toluidine (p-cresidine) / 3-甲基-6-甲氧基苯胺	120-71-8	0.01%
115	Biphenyl-4-ylamine / 4-氨基联苯	92-67-1	0.01%
116	o-aminoazotoluene / 邻氨基偶氮甲苯	97-56-3	0.01%
117	o-Toluidine / 邻甲苯胺	95-53-4	0.01%
118	Acetic acid, lead salt, basic (*3) / 碱式醋酸铅	51404-69-4	0.01%
119	Trilead bis(carbonate) dihydroxide (*3) / 碱式碳酸铅	1319-46-6	0.01%
120	Lead oxide sulfate (*3) / 碱式硫酸铅	12036-76-9	0.01%

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121	[Phthalato(2-)]dioxotrilead (*3) / (1,2-苯二羧酸根合) 二氧化三铅	69011-06-9	0.01%
122	Dioxobis(stearato)trilead (*3) / 双(十八酸基) 二氧化三铅	12578-12-0	0.01%
123	Fatty acids, C16-18, lead salts (*3) / C16-18-脂肪酸铅盐	91031-62-8	0.01%
124	Lead bis(tetrafluoroborate) (*3) / 四氟硼酸铅(II)	13814-96-5	0.01%
125	Lead cyanamidate (*3) / 氨基氰铅盐	20837-86-9	0.01%
126	Lead dinitrate (*3) / 硝酸铅	10099-74-8	0.01%
127	Lead monoxide (lead oxide) (*3) / 氧化铅	1317-36-8	0.01%
128	Orange lead (lead tetroxide) (*3) / 四氧化铅	1314-41-6	0.01%
129	Lead titanium trioxide (*3) / 钛酸铅	12060-00-3	0.01%
130	Lead titanium zirconium oxide (*3) / 钛酸铅锆	12626-81-2	0.01%
131	Pyrochlore, antimony lead yellow (*3) / C. I. 颜料黄 41	8012-00-8	0.01%
132	Pentalead tetraoxide sulphate (*3) / 氧化铅与硫酸铅的复合物	12065-90-6	0.01%
133	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD), the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] (*3) / 含铅的矽酸钡	68784-75-8	0.01%
134	Silicic acid, lead salt (*3) / 矽酸铅	11120-22-2	0.01%
135	Sulfurous acid, lead salt, dibasic (*3) / 亚硫酸铅(II)	62229-08-7	0.01%
136	Tetraethyllead (*3) / 四乙基铅	78-00-2	0.01%
137	Tetralead trioxide sulphate (*3) / 三碱式硫酸铅	12202-17-4	0.01%
138	Trilead dioxide phosphonate (*3) / 磷酸氧化铅	12141-20-7	0.01%
139	Dipentyl phthalate (DPP) / 邻苯二甲酸二戊酯	131-18-0	0.01%
140	Ammonium pentadecafluorooctanoate (APFO) (*13) / 全氟辛酸铵	3825-26-1	0.01%
141	Pentadecafluorooctanoic acid (PFOA) / 全氟辛酸	335-67-1	0.01%
142	Cadmium (*3) / 镉	7440-43-9	0.01%
143	Cadmium oxide (*3) / 氧化镉	1306-19-0	0.01%
144	4-Nonylphenol, branched and linear, ethoxylated (NPEO) [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof] / 分支或线性的乙氧基壬基酚 [包括含有9个碳烷基链的所有独立的同分异构体和所有含有线性或分支9个碳烷基链的UVCB物质]	-	0.01%
145	Diethyl phthalate / 邻苯二甲酸二乙酯	84-75-3	0.01%
146	Triethyl phosphate / 磷酸三(二甲苯)酯	25155-23-1	0.01%
147	Imidazolidine-2-thione; (2-imidazoline-2-thiol) / 仲乙硫脲(咪唑啉-2-硫酮)	96-45-7	0.01%
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28) / 直接红 28	573-58-0	0.01%
149	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) / 直接黑 38	1937-37-7	0.01%
150	Lead di(acetate) (*3) / 醋酸铅	301-04-2	0.01%
151	Cadmium sulphide (*3) / 硫化镉	1306-23-6	0.01%

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152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear / 邻苯二甲酸异己酯	68515-50-4	0.01%
153	Cadmium chloride (*3) / 氯化镉	10108-64-2	0.01%
154	Sodium perborate; perboric acid, sodium salt (*3) (*6) / 水合高硼酸钠盐类	-	0.01%
155	Sodium peroxometaborate (*3) (*6) / 过硼酸钠	7632-04-4	0.01%
156	Cadmium fluoride (*3) / 氟化镉	7790-79-6	0.01%
157	Cadmium sulphate (*3) / 硫酸镉	10124-36-4 / 31119-53-6	0.01%
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) / 2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑	3846-71-7	0.01%
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) / 2-(2'-羟基-3',5'-二特戊基苯基)苯并三唑	25973-55-1	0.01%
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) (*14) / 二正辛基-双(巯乙酸 2-乙基己酯)锡 (DOTE)	15571-58-1	0.01%
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) (*15) / 二正辛基-双(巯乙酸 2-乙基己酯)锡 与 甲基锡三(巯基乙酸异辛酯)的反应物 (DOTE 和 MOTE 反应物)	-	0.01%
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5) / 1,2-苯二甲酸二 C6-10 烷基酯; 1,2-苯二甲酸混合癸、己、辛二酯, 包含 ≥ 0.3% 的邻苯二甲酸二己酯 (EC No. 201-559-5)	68515-51-5 / 68648-93-1	0.01%
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof] / [1] 5-二叔丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二噁烷, [2] 5-二叔丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二噁烷 包含以下[1]与[2]之所有单独立体异构物与其组成。	-	0.01%
164	1,3-propanesultone / 1,3-丙烷磺酸内酯	1120-71-4	0.01%
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) / 2,4-二叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚 (UV-327)	3864-99-1	0.01%
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) / 2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑 (UV-350)	36437-37-3	0.01%
167	Nitrobenzene / 硝基苯	98-95-3	0.01%
168	Perfluorononanoic acid and its sodium and ammonium salts / 全氟壬酸及其钠盐和铵盐	375-95-1 21049-39-8 4149-60-4	0.01%
169	Benzo[def]chrysene (Benzo[a]pyrene) / 苯并[def]蒽 (苯并[a]芘)	50-32-8	0.01%
170	4,4'-isopropylidenediphenol (bisphenol A) / 双酚 A	80-05-7	0.01%
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts / 全氟癸酸 (PFDA) 及其钠盐和铵盐	335-76-2 3830-45-3 3108-42-7	0.01%
172	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	-	0.01%

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	isomers or a combination thereof] / 支链与直链的 4-庚基酚		
173	p-(1,1-dimethylpropyl)phenol / 4-叔戊基苯酚	80-46-6	0.01%
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS) / 全氟己基磺酸及其盐类	-	0.01%
175	Chrysene / 屈	218-01-9	0.01%
176	Benz[a]anthracene / 苯并[a]蒽	56-55-3	0.01%
177	Cadmium nitrate(*3) / 硝酸镉	10325-94-7	0.01%
178	Cadmium hydroxide(*3) / 氢氧化镉	21041-95-2	0.01%
179	Cadmium carbonate(*3) / 碳酸镉	513-78-0	0.01%
180	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] / 德克隆[包括所有反式和顺式异构体及其组合]	-	0.01%
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear] / 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的反应物(4-庚基苯酚, 支链和直链含量≥0.1% w/w)	-	0.01%
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride, TMA) / 1,2,4-苯三酸酐(偏苯三酸酐) (TMA)	552-30-7	0.01%
183	Dicyclohexyl phthalate (DCHP) / 邻苯二甲酸二环己酯(DCHP)	84-61-7	0.01%
184	Terphenyl, hydrogenated / 氢化三联苯	61788-32-7	0.01%
185	Octamethylcyclotetrasiloxane (D4) / 八甲基环四硅氧烷(D4)	556-67-2	0.01%
186	Decamethylcyclopentasiloxane (D5) / 十甲基环五硅氧烷(D5)	541-02-6	0.01%
187	Dodecamethylcyclohexasiloxane (D6) / 十二甲基环六硅氧烷(D6)	540-97-6	0.01%
188	Ethylenediamine (EDA) / 乙二胺 (EDA)	107-15-3	0.01%
189	Lead / 铅	7439-92-1	0.01%
190	Disodium octaborate (*3) / 氧化硼钠	12008-41-2	0.01%
191	Benzo[ghi]perylene / 苯并(g,h,i)芘	191-24-2	0.01%
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane / 2,2-二(4-羟基苯基)-4-甲基戊烷	6807-17-6	0.01%
193	Benzo[k]fluoranthene / 苯并(k)荧蒽	207-08-9	0.01%
194	Fluoranthene / 荧蒽	206-44-0	0.01%
195	Phenanthrene / 菲	85-01-8	0.01%
196	Pyrene / 芘	129-00-0	0.01%
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan- 2-one / 1,7,7-三甲基-3-(苯基亚甲基)双环[2.2.1]庚烷-2-酮	15087-24-8	0.01%
198	2-methoxyethyl acetate / 2-甲氧基乙酸乙酯	110-49-6	0.01%
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) / 亚磷酸三(4-壬基酚, 支链和线性)酯 (TNPP), 其 4-壬基酚的 w/w≥0.1%, 支链和线性 (4-NP)	-	0.01%
200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and	-	0.01%

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	combinations thereof) / 2,3,3,3-四氯-2- (七氯丙氧基) 丙酸及其盐类和酰基卤化物 (包括 其任何单个异构体及其组合)		
201	4-tert-butylphenol / 4-叔丁基苯酚	98-54-4	0.01%
202	Diisohexyl phthalate (DiHexP) / 邻苯二甲酸二异辛酯	71850-09-4	0.01%
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone / 2-苄基-2-二甲氨基-4'-吗啉丁基甲酚	119313-12-1	0.01%
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one / 2-甲基-1- (4-甲基硫苯基) -2-吗啉丙烷-1-酮	71868-10-5	0.01%
205	Perfluorobutane sulfonic acid (PFBS) and its salts / 全氟代丁酸及其盐类	-	0.01%
206	1-vinylimidazole / 1-乙烯基咪唑	1072-63-5	0.01%
207	2-methylimidazole / 2-甲基咪唑	693-98-1	0.01%
208	Butyl 4-hydroxybenzoate / 对羟基苯甲酸丁酯	94-26-8	0.01%
209	Dibutylbis(pentane-2,4-dionato-O,O')tin(*16) / 双(乙酰丙酮酸)二丁 基锡	22673-19-4	0.01%
210	Bis(2-(2-methoxyethoxy)ethyl)ether / 双(2-(2-甲氧基乙氧基)乙基)醚	143-24-8	0.01%
211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety (*14)/ 二月桂酸二辛酯, 二辛基锡, 二辛基锡, 双(椰油酰氧基)衍生物和 任何其他锡, 二辛基锡, 双(脂肪酰氧基)衍生物. 其中 C12 是脂肪酰氧 基部分的主要碳数	-	0.01%

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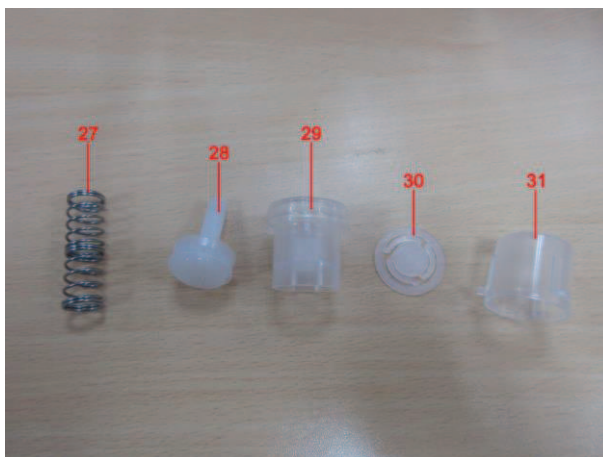
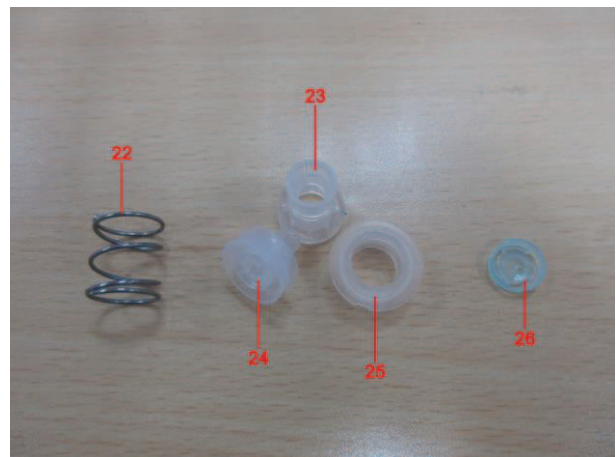
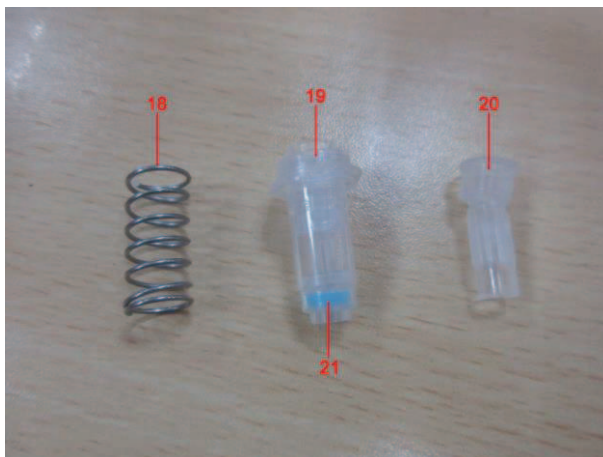
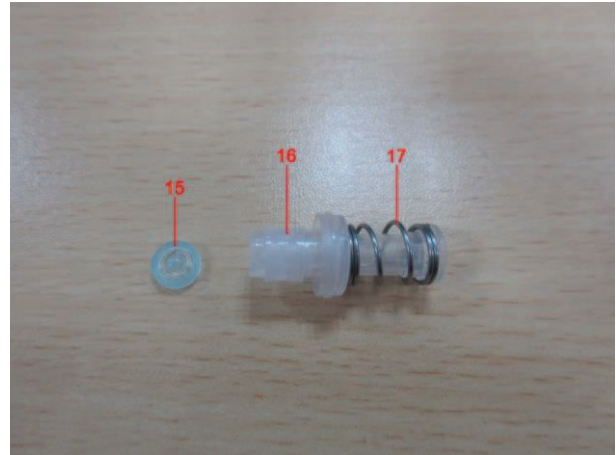
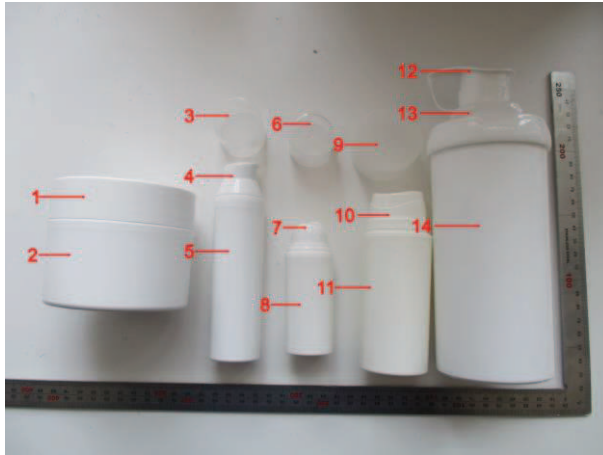
Remarks/备注:

- (*3) The substances are tested and calculated in terms of its respective elements (e.g. As, Pb, Co, B, Cd, Sn).
/ 测试其代表性元素(如 砷, 铅, 钴, 硼, 镉, 锡)。
- (*4) The substances are tested and calculated in terms of Cr (VI). / 测试其代表性元素六价铬。
- (*5) The substance is tested and calculated in terms of Tributyl tin. / 测试三丁基锡并以之做计算。
- (*6) The substances are confirmed and tested in terms of Boric acid when Boron is detected in the sample.
/ 测试物质以硼酸做确认。
- (*7) The substances are UVCB (substance of unknown or variable composition, complex reaction products or biological materials), which are identified by its main constituents.
/ 该物质为未知或多种混合物, 交错反应物质或生物材料, 以其主要组成物质分析之。
- (*8) Individual concentrations to the constituent of UVCB with an amount of < 0.01% were not considered by the calculation of the sum. / 个别UVCB物质若含量小于0.01%, 则不列入总和计算。
- (*9) The test results are based on microscopic and chemical evaluation. / 测试结果依据显微镜和化学评估。
- (*10) The substances are quantified in terms of Michler's ketone and Michler's base by LC-MS, as Michler's ketone or Michler's base was found exceeds 0.01%.
/ 当米希勒酮或米希勒碱含量超过0.01%时, 用LC-MS以米希勒酮和米希勒碱做确认分析。
- (*11) The content oligomer is determined by Py-GC/MS. / 低聚合物的含量以Py-GC/MS分析。
- (*12) The content of diazene-1,2-dicarboxamide is analyzed in terms of its breakdown product.
/ 含量以其分裂物质分析。
- (*13) The substance is tested in terms of pentadecafluorooctanoate. / 测试其代表性物质pentadecafluorooctanoate
- (*14) The substance is tested and calculated in terms of Dioctyl tin. / 测试二辛基锡并以之做计算。
- (*15) The substance is tested and calculated in terms of Monoctyl tin and Dioctyl tin.
/ 测试单辛基锡和二辛基锡并以之做计算。
- (*16) The substance is tested and calculated in terms of Dibutyl tin. / 测试二丁基锡并以之做计算。

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-- 结束 END --

General Terms and Conditions of Business of TÜV Rheinland in Greater China

1. Scope

1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTCB") is made between the client and one or more member entities of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China hereof refers to Mainland China, Hong Kong and Taiwan. The client hereof includes :

- (i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract not for the purpose of a daily use;
 - (ii) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.
- 1.2 The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.
- 1.3 Any standard terms and conditions of the client of any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TÜV Rheinland does not explicitly object to them.
- 1.4 In the context of an ongoing business relationship with the client, this GTCB shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately in each individual case.

2. Quotations

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

3. Coming into effect and duration of contracts

- 3.1 The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, or upon the works requested by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, entitled to accept the order by giving written notice of such acceptance (including notice sent via electronic means) or by performing the requested services.
- 3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.
- 3.3 If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for in the contract unless terminated in writing by either party with a six-week notice prior to the end of the contractual term.

4. Scope of services

- 4.1 The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the service to be provided.
- 4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.
- 4.3 TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.
- 4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a whole and its upstream and/or downstream processes, organisations, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜV Rheinland shall assume no responsibility for the construction, selection of materials and assembly of installations examined, nor for their use and application in accordance with regulations, unless these questions are expressly covered by the contract.
- 4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.
- 4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration for resulting additional expenses.
- 4.7 The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and justifying confidence in the work results (test reports, test results, expert reports, etc.) is not part of the agreed services. This also applies if the client passes on work results - in full or in extracts - to third parties in accordance with clause 11.4.

5. Performance periods/dates

- 5.1 The contractually agreed periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if being confirmed as binding by TÜV Rheinland in writing.
- 5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland.
- 5.3 Articles 5.1 and 5.2 also apply, even without express approval by the client, to all extensions of agreed periods/dates of performance not caused by TÜV Rheinland.
- 5.4 TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his duties to cooperate in accordance with clause 6.1 or has not done so in time and, in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.
- 5.5 If the performance of TÜV Rheinland is delayed due to unforeseeable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to resume performance.

6. The client's obligation to cooperate

- 6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.
- 6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:
- a) it has required statutory qualifications;
 - b) the product, service or management system to be certified complies with applicable laws and regulations; and
 - c) it doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.
- If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/certificates if any.
- 6.3 The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

7. Prices

- 7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price list of TÜV Rheinland valid at the time of performance.
- 7.2 Unless otherwise agreed, work shall be invoiced according to the progress of the work.
- 7.3 If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds €2,500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.

8. Payment terms

- 8.1 All invoice amounts shall be due for payment without deduction on receipt of the invoice. No discounts and rebates shall be granted.
- 8.2 Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, stating the invoice and client numbers.
- 8.3 In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term loan interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.
- 8.4 Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract.
- 8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.

8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.

8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments.

8.8 TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the rise in fees remains under 5% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the period of notice of changes in fees. If the contract is not terminated, the changed fees shall be deemed to have been agreed upon by the time of the expiry of the notice period.

8.9 Only legally established and undisputed claims may be offset against claims by TÜV Rheinland.

9. Acceptance of work

- 9.1 Any part of the work result ordered which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately.
- 9.2 If acceptance is required or contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the client refuses acceptance within this period stating at least one fundamental breach of contract by TÜV Rheinland.
- 9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.
- 9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take its place.
- 9.5 If the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), TÜV Rheinland is entitled to immediately charge a lump-sum compensation of 10% of the order amount as compensation for expenses. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.
- 9.6 Insofar as the client has undertaken in the contract to accept services, TÜV Rheinland shall also be entitled to charge lump-sum damages in the amount of 10% of the order amount as compensation for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.

10. Confidentiality

- 10.1 For the purpose of these terms and conditions, "confidential information" means all information, documents, images, drawings, know-how, data, samples and project documentation which one party (the "disclosing party") hands over, transfers or otherwise discloses to the other party (the "receiving party"), and the confidential information created during performance of work by TÜV Rheinland, including product testing data, defects, conformity to the technical standard and related reports. Confidential information also includes paper copies and electronic copies of such information. Confidential information is expressly not the data and know-how collected, compiled or otherwise obtained by TÜV Rheinland (non-personal) within the scope of the provision of services by TÜV Rheinland. TÜV Rheinland is entitled to store, use, further develop and pass on the data obtained in connection with the provision of services for the purposes of developing new services, improving services and analysing the provision of services.
- 10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it onto the receiving party. The same applies to confidential information transmitted by e-mail. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the receiving party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party fails to do so within the stipulated period, the receiving party shall not take any confidentiality obligations hereunder towards such information.
- 10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and which is created during performance of work by TÜV Rheinland:
- a) may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party;
 - b) may not be copied, distributed, published or otherwise disclosed by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TÜV Rheinland is required to pass on confidential information, inspection reports or documentation to the government authorities, judicial court, accreditation bodies or third parties that are involved in the performance of the contract;
 - c) must be treated by the receiving party with the same level of confidentiality as the receiving party uses to protect its own confidential information, but never with a lesser level of confidentiality than that which is reasonably required.
- 10.4 The receiving party may disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the contract. The receiving party undertakes to oblige these employees to observe the same level of secrecy as set forth in this confidentiality clause.
- 10.5 Information for which the receiving party can furnish proof that:
- a) it was generally known at the time of disclosure or has become general knowledge without violation of this confidentiality clause by the receiving party; or
 - b) it was disclosed to the receiving party by a third party entitled to disclose this information; or
 - c) the receiving party already possessed this information prior to disclosure by the disclosing party; or
 - d) the receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute "confidential information" as defined in this confidentiality clause.
- 10.6 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and/or (ii) on request by the disclosing party, to destroy all confidential information, including all copies; and confirm the destruction of this confidential information to the disclosing party in writing, at any time if so requested by the disclosing party but at the latest and without special request after termination or expiry of the contract. This does not extend to include reports and certificates prepared for the client solely for the purpose of fulfilling the obligations under the contract, which shall remain with the client. However, TÜV Rheinland is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to evidence the correctness of its results and for general documentation purposes required by laws, regulations and the requirements of working procedures of TÜV Rheinland.
- 10.7 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

11. Copyrights and rights of use, publications

- 11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, calculations, presentations etc. prepared by TÜV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use ("right of use")
- 11.2 The client receives a simple, unlimited, non-transferable, non-sublicensable right of use to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert reports/opinions, test reports/results, results, calculations, presentations etc. prepared within the scope of the contract for the contractually agreed purpose.
- 11.3 The transfer of right of use of the generated work results regulated in clause 11.2 of the GTCB is subject to full payment of the remuneration agreed in favour of TÜV Rheinland.
- 11.4 The client may use work results only complete and unshortened. The client may only pass on the work results in full unless TÜV Rheinland has given its prior written consent to the partial passing on of work results.
- 11.5 Any publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope regulated in clause 11.2 needs the prior written approval of TÜV Rheinland in each individual case.
- 11.6 TÜV Rheinland may revoke a once given approval according to clause 11.5 at any time without stating reasons. In this case, the client is obliged to stop the transfer of the work results immediately at his own expense and, as far as possible, to withdraw publications.
- 11.7 The consent of TÜV Rheinland to publication or duplication of the work results does not entitle the client to use the corporate logo, corporate design or test/certification mark of TÜV Rheinland.

12. Liability of TÜV Rheinland

- 12.1 Irrespective of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses and reimbursement of expenses caused by TÜV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for annually recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual

orders, three times of the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, in the event that the total and accumulated liability calculated according to the foregoing provisions exceeds 2.5 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 2.5 Million Euro or equivalent amount in local currency.

12.2 The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland and/or its vicarious agents. Such limitation shall not apply to damages for a person's death, physical injury or illness.

12.3 In cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 applies.

12.4 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services under the contract, unless such personnel made available is regarded as vicarious agent of TÜV Rheinland. If TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from or in connection with such personnel's acts.

12.5 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract to the client.

12.6 The limitation periods for claims for damages shall be based on statutory provisions.

12.7 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

13. Export control

- 13.1 When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law.
- 13.2 The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embargoes and/or sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereof by TÜV Rheinland.

14. Data protection notice

TÜV Rheinland processes personal data of the client for the purpose of fulfilling this contract. In addition, TÜV Rheinland also processes the data for other legal purposes in accordance with the relevant legal basis. The personal data of the client will only be disclosed to other natural or legal persons if the legal requirements are met. This also applies to transfers to third countries. The personal data will be deleted immediately as soon as a corresponding reason for deletion arises. Data subjects may exercise the following rights: right of information, right of rectification, right of deletion, right of processing limitation, right of objection, right of data transferability. In addition, persons concerned by the data processing have the right to revoke their consent at any time with effect for the future, as well as the right to file a complaint with the competent data protection supervisory authority. For further details on the processing of personal data by TÜV Rheinland as the person responsible or contract processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TÜV Rheinland by e-mail at datenschutz@de.tuv.com or by post at the following address: TÜV Rheinland AG, c/o Group Data Protection Officer, Am Grauen Stein, 51105 Cologne, Germany.

15. Test material: transport risk and storage

- 15.1 The risk and costs for freight and transport of documents or test material to and from TÜV Rheinland as well as the costs of necessary disposal measures shall be borne by the client.
- 15.2 Any destroyed and otherwise worthless test material will be disposed of by TÜV Rheinland for the client at the expense of the client, unless otherwise agreed.
- 15.3 Undamaged test material shall be stored by TÜV Rheinland for four (4) weeks after completion of the test. If a longer storage period is desired, TÜV Rheinland charges an appropriate storage fee.
- 15.4 After the expiry of the 4 weeks or any longer period agreed upon, the test material will be disposed of by TÜV Rheinland for the client for a fee in accordance with clause 15.2.

16. Termination of the contract

- 16.1 Notwithstanding clause 3.3 of the GTCB, TÜV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services combined in one contract, each of the components of the contract individually and independently of the continuation of the remaining services with six (6) months' notice to the end of the contractually agreed term.
- 16.2 For good causes, TÜV Rheinland may consider giving a written notice to the client to terminate the contract which includes but not limited to the following:
- a) the client does not immediately notify TÜV Rheinland of changes in the conditions within the company which are relevant for certification or signs of such changes;
 - b) the client misuses the certificate or certification mark or uses it in violation of the contract;
 - c) in the event of several consecutive delays in payment (at least three times);
 - d) a substantial deterioration of the financial circumstances of the client occurs and as a result the payment claims of TÜV Rheinland under the contract are considerably endangered and TÜV Rheinland cannot reasonably be expected to continue the contractual relationship.
- 16.3 In the event of termination with written notice by TÜV Rheinland for good cause, TÜV Rheinland shall be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages exist. In this case, the client shall owe 15% of the remuneration to be paid until the end of the fixed contract term as lump-sum compensation. The client reserves the right to prove that there is no damage or a considerably lower damage, TÜV Rheinland reserves the right to prove a considerably higher damage in individual cases.
- 16.4 TÜV Rheinland is also entitled to terminate the contract with written notice if the client has not been able to make use of the time windows for auditing /service provision provided by TÜV Rheinland within the scope of a certification procedure and the certificate therefore has to be withdrawn (for example during the performance of monitoring audits). Clause 16.3 applies accordingly.

17. Partial invalidity, written form, place of jurisdiction and dispute resolution

- 17.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 17.1.
- 17.2 Should one or several of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms.
- 17.3 Unless otherwise stipulated in the contract, the governing law of the contract and these terms and conditions shall be chosen following the rules as below:
- a) If TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of the People's Republic of China.
 - b) If TÜV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.
 - c) If TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.
- 17.4 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotiations.

Unless otherwise stipulated in the contract, if no settlement or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted:

a) in the case of TÜV Rheinland in question being legally registered and existing in the People's Republic of China, to China International Economic and Trade Arbitration Commission (CIETAC) to be settled by arbitration under the Arbitration Rules of CIETAC in force when the arbitration is submitted. The arbitration shall take place in Beijing, Shanghai, Shenzhen or Chongqing as appropriately chosen by the claiming party.

b) in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association Taipei Branch to be arbitrated in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei.

c) in the case of TÜV Rheinland being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be settled by arbitration under the HKIAC Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong.

The decision of the relevant arbitration tribunal shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.