

Test Report No.: 178178876a 001

Client: SHANDONG HENGTAI TEXTILE CO. LTD.

West of Tengfei Road, Economic Development Zone, Yishui County, Linyi City, Shandong Province

Factory Details

Factory Name : Shandong Hengtai Textile CO., LTD
 Factory Address (with geographical coordinates) : West of Tengfei Road, Economic Development Zone, Yishui County, Linyi City, Shandong Province
 On-site ETP : Y
 Discharge Type of Wastewater : Indirect discharge
 Destination of Wastewater : Linyi Runze Water co.,LTD

For Indirect discharge

Name of public wastewater treatment plants(CETP) : Linyi Runze Water co.,LTD
 Name of public wastewater treatment plants(CETP) : HuBu Xi Cun, Yi shui, Linyi City

Sampling Details

Sample Receiving Date : 2023-03-16
 Testing Period : 2023-03-16 - 2023-03-31

Sampling Method:

Sample Type	Total Volume	1	2	3	4	5	6
Discharged Wastewater	1.22L	09:50	10:47	11:52	12:50	13:50	14:50
Raw Wastewater	15.24L	10:02	11:10	12:05	13:07	14:06	15:03
Incoming Water	-	-	-	-	-	-	-
Sludge	5500g	12:30	-	-	-	-	-

Overall Rating	Discharged Wastewater	Raw Wastewater	Sludge
Conventional Parameters / Anion / Metals	Fulfill Aspirational Limit	Not Tested	Comply
MRSL Parameters	Not Tested	Comply	Report Only
Legal Compliance	Not Tested	Not Tested	Not Tested
Specifications	ZDHC Wastewater Guidelines Version 2.1 (November 2022)		

For and on behalf of
TÜV Rheinland/CCIC (Qingdao) Co., Ltd.



2023-03-31

Echo Xu / Department Manager

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned 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.

"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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Result Summary :

Conventional Parameters	Incoming Water	Discharged Wastewater	Raw Wastewater	Sludge
pH Value [^]	-	-	-	Report Only
Anion - Cyanide [^]	-	-	-	Comply
Heavy Metals [^]	-	Aspirational	-	Report Only
Leachate Heavy Metals [^]	-	-	-	Report Only
%Solid [^]	-	-	-	Report Only
Paint Filter Test [^]	-	-	-	Report Only
Fecal Coliform [^]	-	-	-	Report Only
Manufacturing Restricted Substances List (MRSL)	Incoming Water	Discharged Wastewater	Raw Wastewater	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs) [^]	-	-	Comply	Report Only
Anti-Microbials & Biocides [^]	-	-	Comply	-
Chlorinated Paraffins [^]	-	-	Comply	-
Chlorobenzenes and Chlorotoluenes [^]	-	-	Comply	Report Only
Chlorophenols [^]	-	-	Comply	-
Dimethyl formamide (DMFa) [^]	-	-	Comply	-
Dyes – Carcinogenic or Equivalent Concern [^]	-	-	Comply	-
Dyes – Disperse (Sensitizing) [^]	-	-	Comply	-
Dyes – Navy Blue Colorant [^]	-	-	Comply	-
Flame Retardants [^]	-	-	Comply	-
Glycols/ Glycol Ethers [^]	-	-	Comply	-
Halogenated Solvents [^]	-	-	Comply	-
Organotin Compounds [^]	-	-	Comply	-
Other / Miscellaneous Chemicals [^]	-	-	Comply	-
Perfluorinated and Polyfluorinated Chemicals (PFCs) [^]	-	-	Comply	-
Phthalates - Including all other esters of phthalic acid [^]	-	-	Comply	-
Polycyclic Aromatic Hydrocarbons (PAHs) [^]	-	-	Comply	Report Only
Restricted Aromatic Amines(Cleavable from Azo) [^]	-	-	Comply	-
UV Absorbers [^]	-	-	Comply	-
Volatile Organic Compounds (VOC) [^]	-	-	Comply	-

Note: Aspirational = Fulfill Aspirational Limit
 Foundational = Fulfill Foundational Limit
 Comply = Comply with ZDHC Limit
 - = Not Tested

Progressive = Fulfill Progressive Limit
 Exceed = Exceed Foundational Limit
 Not Comply = Not Comply with ZDHC Limit

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Material List:

Field ID	Sample Type	Sample Description
R001	Waste water	Raw Wastewater*
D001	Waste water	Discharge Wastewater*
S001	Sludge	Sludge*(Type A)

Notes:

- * **Discharge Wastewater:** Wastewater that is released from a supplier, either directly to the environment (including but not limited to: water bodies, land application/irrigation), or to a wastewater treatment system beyond the supplier's property boundaries.
- * **Direct Discharge:** A point source that discharges wastewater to stream, lakes, oceans, or other receiving bodies. Distribution of wastewater onto land is also considered a type of direct discharge. Municipal bodies and suppliers that introduce pollution through a defined conveyance or system such as outlet pipes are direct dischargers.
- * **Indirect Discharge:** The discharge of wastewater through a sanitary or industrial wastewater sewer system to a central or common effluent treatment plant (CETP) not owned and/ or operated by the supplier discharging the pollutants.
- * **Raw Wastewater: (Untreated Wastewater)** Wastewater that has not yet been treated prior to direct or indirect discharge, or recycling efforts. This wastewater therefore does not meet the quality standards for beneficial use.
- * **Sludge:** The solid or semi-solid material separated during the wastewater treatment process, including septic and Zero Liquid Discharge (ZLD) systems.
- * **Incoming Water:** Water that is supplied to a manufacturing process, usually withdrawn from surface water bodies, groundwater, collected from rainfall, supplied by municipalities, etc.
- Type A:** Offsite Incineration at > 1000°C.
- Type B:** Landfill with Significant Control Measures.
- Type C:** Building Products Processed at > 1000°C.
- Type D:** Landfill with Limited Control Measures.
- Type E:** Offsite Incineration and Building Products Processed at < 1000°C.
- Type F:** Landfill with No Control Measures.
- Type G:** Land Application.

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1.pH Value^

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
pH Value	PH	HJ 962	NONE	NA	6.92
Conclusion					Report Only

Abbreviation: NA = Not Applicable**Remark:**

The limits according to ZDHC limit (Table 3 & 4C of ZDHC Wastewater Guidelines Version 2.1 issued in November 2022):

Parameter	ZDHC Wastewater Limit		
	Foundational	Progressive	Aspirational
pH Value	6-9		

Parameter	ZDHC Sludge Limit						
	A	B	C	D	E	F	G
Sludge Type							
pH Value	Report Only	Report Only	5-11	5-11	5-11	6.5-9	6.5-9

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2. Anion - Cyanide[^]

Parameter	Parameter Code	Test Method	Unit	Sample No.	RL	Result
Anion - Cyanide	57-12-5	HJ 745	mg/kg		10	< RL
Conclusion						Comply

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter
 mg/kg = milligram per kilogram

Remark:

The limits according to ZDHC limit (Table 3 & 4A of ZDHC Wastewater Guidelines Version 2.1 issued in November 2022):

Parameter	ZDHC Limit for Wastewater (mg/L)			ZDHC Limit (mg/kg)
	Foundational	Progressive	Aspirational	Sludge
Anion - Cyanide	0.2	0.1	0.05	20

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3.Heavy Metals^

Sample No.					D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Arsenic (As)	Arsenic	US EPA 6020a	mg/L	0.001	< RL
Cadmium (Cd)	Cadmium	US EPA 6020a	mg/L	0.001	< RL
Chromium (Cr VI)	Chromium VI	GB 7467	mg/L	0.001	< RL
Lead (Pb)	Lead	US EPA 6020a	mg/L	0.001	0.003
Mercury (Hg)	Mercury	US EPA 6020a	mg/L	0.001	< RL
Conclusion					Fulfill Aspirational Limit

Sample No.					S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Antimony (Sb)	Antimony	HJ 803	mg/kg	1	103
Chromium (Cr, total)	Chromium Total	HJ 803	mg/kg	1	96
Cobalt (Co)	Cobalt	US EPA 7196	mg/kg	1	6
Copper (Cu)	Copper	HJ 803	mg/kg	1	336
Nickel (Ni)	Nickel	HJ 803	mg/kg	1	29
Silver (Ag)	Silver	US EPA 6020b	mg/kg	1	< RL
Zinc (Zn)	Zinc	HJ 803	mg/kg	1	6980
Arsenic (As)	Arsenic	HJ 803	mg/kg	1	4
Cadmium (Cd)	Cadmium	HJ 803	mg/kg	1	< RL
Chromium (Cr VI)	Chromium VI	US EPA 7196	mg/kg	1	4.2
Lead (Pb)	Lead	HJ 803	mg/kg	1	8
Mercury (Hg)	Mercury	US EPA 6020b	mg/kg	0.1	< RL
Barium (Ba)	Barium	US EPA 6020b	mg/kg	1	41
Selenium (Se)	Selenium	US EPA 6020b	mg/kg	1	< RL
Conclusion					Report Only

Abbreviation: < =less than
 RL =reporting limit
 mg/L = milligram per liter
 mg/kg = milligram per kilogram

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Remark:

The limits according to ZDHC limit (Table 2 & 4A & 4B of ZDHC Wastewater Guidelines Version 2.1 issued in November 2022):

Parameter	ZDHC Limit for Wastewater (mg/L)			ZDHC Limit for Sludge (mg/kg)		
	Foundational	Progressive	Aspirational	Disposal pathway A-F	Disposal pathway G	Total Metals Threshold Values**
Antimony (Sb)	0.1	0.05	0.01	Report only	Sample and report only	12
Chromium (Cr, total)	0.2	0.1	0.05		3000	100
Cobalt (Co)	0.05	0.02	0.01		Sample and report only	1600
Copper (Cu)	1	0.5	0.25		4300	200
Nickel (Ni)	0.2	0.1	0.05		420	70
Silver (Ag)	0.1	0.05	0.005		Sample and report only	100
Zinc (Zn)	5.0	1.0	0.5		7500	1000
Arsenic (As)	0.05	0.01	0.005		75	10
Cadmium (Cd)	0.1	0.05	0.01		85	3
Chromium (Cr VI)	0.05	0.005	0.001		50	50
Lead (Pb)	0.1	0.05	0.01		840	10
Mercury (Hg)	0.01	0.005	0.001		57	1
Barium (Ba)	Sample and report only				Sample and report only	700
Selenium (Se)	Sample and report only				100	10
Tin (Sn)	Sample and report only				NA	NA

* For polyester wet processing facilities Foundational, Progressive and Aspirational limits do not yet apply (unless required by law or voluntarily adopted).

** if the Total Metals for Sludge exceeded the Total Metals Threshold Values (mg/kg) given in this table, proceed with Leachate Heavy Metal.

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4. Leachate Heavy Metals[^]

Parameter	Parameter Code	Test Method	Unit	Sample No.	S001
				RL	Result
Arsenic (As)	Arsenic	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	0.5	< RL
Cadmium (Cd)	Cadmium	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	0.15	< RL
Chromium (Cr, total)	Chromium Total	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	1	< RL
Lead (Pb)	Lead	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	0.5	< RL
Antimony (Sb)	Antimony	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	0.5	1.3
Barium (Ba)	Barium	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	10	< RL
Cobalt (Co)	Cobalt	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	10	< RL
Copper (Cu)	Copper	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	1	< RL
Nickel (Ni)	Nickel	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	1	< RL
Selenium (Se)	Selenium	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	0.5	< RL
Silver (Ag)	Silver	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	1	< RL
Zinc (Zn)	Zinc	US EPA 1311, US EPA 3051A, US EPA 200.8	mg/L	10	124
Chromium (Cr VI)	Chromium VI	US EPA 1311, US EPA 7196	mg/L	2	< RL
Mercury (Hg)	Mercury	US EPA 1311, US EPA 3051A, US EPA 6020B	mg/L	0.05	< RL
Conclusion					Report Only

Abbreviation: < = less than
 RL = reporting limit
 mg/L = milligram per liter

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Remark:

The limits according to ZDHC limit (Table 4B of ZDHC Wastewater Guidelines Version 2.1 issued in November 2022):

Parameter	ZDHC Sludge Limit (mg/L)						
	A	B	C	D	E	F	G
Sludge Type							
Arsenic (As)	Report Only if Required to Test		5	2.75	0.5	0.5	0.5
Cadmium (Cd)			1	0.58	0.15	0.15	0.15
Chromium (Cr, total)			15	10	5	5	5
Lead (Pb)			5	2.75	0.5	0.5	0.5
Antimony (Sb)			15	7.8	0.6	0.6	0.6
Barium (Ba)			100	67.5	35	35	35
Cobalt (Co)			80	80	80	80	80
Copper (Cu)			25	17.5	10	10	10
Nickel (Ni)			20	11.75	3.5	3.5	3.5
Selenium (Se)			1	0.75	0.5	0.5	0.5
Silver (Ag)			5	5	5	5	5
Zinc (Zn)			250	150	50	50	50
Chromium (Cr VI)			5	3.75	2.5	2.5	2.5
Mercury (Hg)			0.2	0.125	0.05	0.05	0.05

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5.%Solids^

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
%Solids	%Solids	HJ 613 at 105°C	%	NA	19.9
Conclusion					Report Only

Abbreviation: % = percentage
NA = Not Applicable

Remark:

The limits according to ZDHC limit (Table 4C of ZDHC Wastewater Guidelines Version 2.1 issued in November 2022):

Parameter	ZDHC Sludge Limit						
	A	B	C	D	E	F	G
Sludge Type							
%Solids	Sample and Report Only						

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6.Paint Filter Test^

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Paint Filter Test	Free Liquid	EPA 9095B	NA	NA	Not visible
Conclusion					Report Only

Abbreviation: NA = Not Applicable

Remark:

The limits according to ZDHC limit (Table 4C of ZDHC Wastewater Guidelines Version 2.1 issued in November 2022):

Parameter	ZDHC Sludge Limit						
	A	B	C	D	E	F	G
Paint Filter Test	Sample and Report Only			Pass Paint Filter Test			Sample and Report Only

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7.Fecal Coliform^

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Fecal Coliform	Fecal Coliform	EPA 1681	MPN/g	10	1.5*10
Conclusion					Report Only

Abbreviation: MPN/g = Most Probable Number per gram

Remark:

The limits according to ZDHC limit (Table 4C of ZDHC Wastewater Guidelines Version 2.1 issued in November 2022):

Parameter	ZDHC Sludge Limit (MPN/g)						
	A	B	C	D	E	F	G
Sludge Type							
Fecal Coliform	Sample and Report Only					1000	1000

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8. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers[^]

Parameter	Parameter Code	Test Method	Unit	RL	Sample No.	R001
					ZDHC Limit	Result
Nonylphenol (NP), mixed isomers	104-40-5 25154-52-3 11066-49-2 84852-15-3	ISO 18857-2	µg/L	5	5	< RL
Octylphenol (OP), mixed isomers	140-66-9 1806-26-4 27193-28-8	ISO 18857-2	µg/L	5	5	< RL
Nonylphenol ethoxylates (NPEO)	9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	ISO 18254-1, ASTM D7065	µg/L	5	5	< RL
Octylphenol ethoxylates (OPEO)	9002-93-1 9036-19-5 68987-90-6	ISO 18254-1, ASTM D7065	µg/L	5	5	< RL
Conclusion						Comply

Parameter	Parameter Code	Test Method	Unit	Sample No.	S001
				RL	Result
Nonylphenol (NP), mixed isomers	104-40-5 25154-52-3 11066-49-2 84852-15-3	ISO 18857-2	mg/kg	0.2	< RL
Octylphenol (OP), mixed isomers	140-66-9 1806-26-4 27193-28-8	ISO 18857-2	mg/kg	0.2	< RL
Nonylphenol ethoxylates (NPEO)	9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	ISO 18254-1, ASTM D7065	mg/kg	0.2	< RL
Octylphenol ethoxylates (OPEO)	9002-93-1 9036-19-5 68987-90-6	ISO 18254-1, ASTM D7065	mg/kg	0.2	< RL
Conclusion					Report Only

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter
 mg/kg = milligram per kilogram

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Remark:

The limits according to ZDHC limit (Table 4C of ZDHC Wastewater Guidelines Version 2.1 issued in November 2022):

Parameter	ZDHC Sludge Limit (mg/kg)						
	A	B	C	D	E	F	G
Sludge Type							
AP & APEOs	Sample and Report Only			0.4	0.4	0.4	0.4

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9. Anti-Microbials & Biocides[^]

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
o-Phenylphenol (+Salts)	90-43-7	US EPA 8270E	µg/L	100	100	< RL
Triclosan	3380-34-5	US EPA 8270E	µg/L	100	100	< RL
Permethrin	Multiple	US EPA 8270E	µg/L	500	500	< RL
Conclusion						Comply

Abbreviation: < = less than
 RL = reporting limit
 µg/L = microgram per liter

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10.Chlorinated Paraffins^

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	US EPA 3510, ISO 18219-2	µg/L	5	5	< RL
Short-chain Chlorinated paraffins (SCCPs) (C10-C13)	85535-84-8	US EPA 3510, ISO 18219-1	µg/L	5	5	< RL
Conclusion						Comply

Abbreviation: < = less than
 RL =reporting limit
 µg/L = microgram per liter

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11.Chlorobenzenes and Chlorotoluenes^

						Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result	
1,2-Dichlorobenzene	95-50-1	US EPA 8260D, 8070E	µg/L	0.2	0.2	< RL	
Other isomers of mono, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono, di- tri-, tetra- and penta-Chlorotoluene	Multiple	US EPA 8260D, 8070E	µg/L	0.2	0.2	< RL	
Conclusion						Comply	

					Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result	
mono, di- tri-, tetra- and penta-Chlorotoluene	Multiple	HJ 605	mg/kg	0.1	< RL	
Conclusion						Report Only

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter
 mg/kg = milligram per kilogram

Remark:

The limits according to ZDHC limit (Table 4C of ZDHC Wastewater Guidelines Version 2.1 issued in November 2022):

Parameter	ZDHC Sludge Limit (mg/kg)						
	A	B	C	D	E	F	G
mono, di- tri-, tetra- and penta-Chlorotoluene	Sample and Report only			0.2	0.2	0.2	0.2

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12.Chlorophenols^

Parameter	Parameter Code	Test Method	Unit	RL	Sample No.	R001
					ZDHC Limit	Result
2-Chlorophenol	95-57-8	US EPA 8270E	µg/L	0.5	0.5	< RL
3-chlorophenol	108-43-0	US EPA 8270E	µg/L	0.5	0.5	< RL
4-chlorophenol	106-48-9	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3-Dichlorophenol	576-24-9	US EPA 8270E	µg/L	0.5	0.5	< RL
2,4-Dichlorophenol	120-83-2	US EPA 8270E	µg/L	0.5	0.5	< RL
2,5-Dichlorophenol	583-78-8	US EPA 8270E	µg/L	0.5	0.5	< RL
2,6-Dichlorophenol	87-65-0	US EPA 8270E	µg/L	0.5	0.5	< RL
3,4-Dichlorophenol	95-77-2	US EPA 8270E	µg/L	0.5	0.5	< RL
3,5- Dichlorophenol	591-35-5	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3,4-Trichlorophenol	15950-66-0	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3,5-Trichlorophenol	933-78-8	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3,6-Trichlorophenol	933-75-5	US EPA 8270E	µg/L	0.5	0.5	< RL
2,4,5-Trichlorophenol	95-95-4	US EPA 8270E	µg/L	0.5	0.5	< RL
2,4,6-Trichlorophenol	88-06-2	US EPA 8270E	µg/L	0.5	0.5	< RL
3,4,5-Trichlorophenol	609-19-8	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3,4,5-Tetrachlorophenol	4901-51-3	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3,4,6-Tetrachlorophenol	58-90-2	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3,5,6-Tetrachlorophenol	935-95-5	US EPA 8270E	µg/L	0.5	0.5	< RL
Pentachlorophenol	87-86-5	US EPA 8270E	µg/L	0.5	0.5	< RL
Conclusion						Comply

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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13. Dimethyl Formamide (DMFa)^

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Dimethyl formamide (DMFa) *	68-12-2	US EPA 8215, 8270E	µg/L	1000	1000	< RL
Conclusion						Comply

Abbreviation: < = less than
 RL = reporting limit
 µg/L = microgram per liter

Remark:

* Sample and Report only for mock leather

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14.Dyes - Carcinogenic or Equivalent Concern^

Parameter	Parameter Code	Test Method	Unit	RL	Sample No.	R001
					ZDHC Limit	Result
C.I. Direct Black 38	1937-37-7	ISO 16373	µg/L	500	500	< RL
C.I. Direct Blue 6	2602-46-2	ISO 16373	µg/L	500	500	< RL
C.I. Acid Red 26	3761-53-3	ISO 16373	µg/L	500	500	< RL
C.I. Basic Red 9	569-61-9	ISO 16373	µg/L	500	500	< RL
C.I. Direct Red 28	573-58-0	ISO 16373	µg/L	500	500	< RL
C.I. Basic Violet 14	632-99-5	ISO 16373	µg/L	500	500	< RL
C.I. Disperse Blue 1	2475-45-8	ISO 16373	µg/L	500	500	< RL
C.I. Disperse Blue 3	2475-46-9	ISO 16373	µg/L	500	500	< RL
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	ISO 16373	µg/L	500	500	< RL
C.I Basic Green 4 (malachite green chloride)	569-64-2	ISO 16373	µg/L	500	500	< RL
C.I Basic Green 4 (malachite green oxalate)	2437-29-8	ISO 16373	µg/L	500	500	< RL
C.I Basic Green 4 (malachite green)	10309-95-2	ISO 16373	µg/L	500	500	< RL
Disperse Orange 11	82-28-0	ISO 16373	µg/L	500	500	< RL
Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	ISO 16373	µg/L	500	500	< RL
C.I. Acid Violet 49	1694-09-3	ISO 16373	µg/L	500	500	< RL
Conclusion						Comply

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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15.Dyes - Disperse (Sensitizing)^

Parameter	Parameter Code	Test Method	Unit	RL	Sample No.	R001
					ZDHC Limit	Result
Disperse Yellow 1	119-15-3	ISO 16373	µg/L	50	50	< RL
Disperse Blue 102	12222-97-8	ISO 16373	µg/L	50	50	< RL
Disperse Blue 106	12223-01-7	ISO 16373	µg/L	50	50	< RL
Disperse Yellow 39	12236-29-2	ISO 16373	µg/L	50	50	< RL
Disperse Orange 37/59/76	13301-61-6	ISO 16373	µg/L	50	50	< RL
Disperse Brown 1	23355-64-8	ISO 16373	µg/L	50	50	< RL
Disperse Orange 1	2581-69-3	ISO 16373	µg/L	50	50	< RL
Disperse Yellow 3	2832-40-8	ISO 16373	µg/L	50	50	< RL
Disperse Red 11	2872-48-2	ISO 16373	µg/L	50	50	< RL
Disperse Red 1	2872-52-8	ISO 16373	µg/L	50	50	< RL
Disperse Red 17	3179-89-3	ISO 16373	µg/L	50	50	< RL
Disperse Blue 7	3179-90-6	ISO 16373	µg/L	50	50	< RL
Disperse Blue 26	3860-63-7	ISO 16373	µg/L	50	50	< RL
Disperse Yellow 49	54824-37-2	ISO 16373	µg/L	50	50	< RL
Disperse Blue 35	12222-75-2	ISO 16373	µg/L	50	50	< RL
Disperse Blue 124	61951-51-7	ISO 16373	µg/L	50	50	< RL
Disperse Yellow 9	6373-73-5	ISO 16373	µg/L	50	50	< RL
Disperse Orange 3	730-40-5	ISO 16373	µg/L	50	50	< RL
Disperse Blue 35	56524-77-7	ISO 16373	µg/L	50	50	< RL
Conclusion						Comply

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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16.Dyes - Navy Blue Colorant^

						Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result	
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	ISO 16373	µg/L	500	500	< RL	
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	ISO 16373	µg/L	500	500	< RL	
Conclusion						Comply	

Abbreviation: < = less than
 RL = reporting limit
 µg/L = microgram per liter

17.Flame Retardants^

Parameter	Parameter Code	Test Method	Unit	RL	Sample No.	R001
					ZDHC Limit	Result
Tris-(2-chloro-ethyl)-phosphate (TCEP)	115-96-8	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Decabromodiphenyl ether (DecaBDE)	1163-19-5	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Tri-(2,3-di-bromo-propyl)-phosphate (TRIS)	126-72-7	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Octabromodiphenyl ether (OctaBDE)	32536-52-0	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Bis-(2,3-di-bromo-propyl)-phosphate (BIS)	5412-25-9	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Polybromobiphenyls (PBB)	59536-65-1	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Tetra-bromo-bisphenol-A (TBBPA)	79-94-7	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Hexabromocyclododecane(HBCDD)	3194-55-6	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Tris-(1,3-di-chloro-iso-propyl)-phosphate (TDCP)	13674-87-8	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Decabromobiphenyl (DecaBB)	13654-09-6	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Dibromobiphenyls (DiBB)	Multiple	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Octabromobiphenyls (OctaBB)	Multiple	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Tetrabromobisphenol A bis(dibromopropyl ether)	21850-44-2	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Monobromobiphenyls (MonoBB)	Multiple	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Monobromodiphenylethers Multiple (MonoBDEs)	Multiple	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Nonabromobiphenyls (NonaBB)	Multiple	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	µg/L	5	25	< RL

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Tribromodiphenylethers (TriBDEs)	Multiple	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	5	25	< RL
Boric acid	10043-35-3; 11113-50-1	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	20	100	< RL
Diboron trioxide	1303-86-2	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	20	100	< RL
Disodium octaborate	12008-41-2	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	20	100	< RL
Disodium tetraborate anhydrous	1303-96-4; 1330-43-4	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	20	100	< RL
Tetraboron disodium heptaoxide, hydrate	12267-73-1	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	20	100	< RL
Conclusion						Comply

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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18.Glycols / Glycol Ethers^

Parameter	Parameter Code	Test Method	Unit	RL	Sample No.	R001
					ZDHC Limit	Result
Bis(2-methylethyl)ether	111-96-6	US EPA 8270E	µg/L	50	50	< RL
2-Ethoxyethanol	110-80-5	US EPA 8270E	µg/L	50	50	< RL
2-Ethoxyethyl acetate	111-15-9	US EPA 8270E	µg/L	50	50	< RL
Ethylene glycol dimethyl ether	110-71-4	US EPA 8270E	µg/L	50	50	< RL
2-Methoxyethanol	109-86-4	US EPA 8270E	µg/L	50	50	< RL
2-Methoxyethyl acetate	110-49-6	US EPA 8270E	µg/L	50	50	< RL
2-Methoxypropyl acetate	70657-70-4	US EPA 8270E	µg/L	50	50	< RL
Triethylene glycol dimethyl ether	112-49-2	US EPA 8270E	µg/L	50	50	< RL
Conclusion						Comply

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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19.Halogenated Solvents^

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
1,2-dichloroethane	107-06-2	US EPA 8260D	µg/L	1	1	< RL
Methylene chloride	75-09-2	US EPA 8260D	µg/L	1	1	< RL
Trichloroethylene	79-01-6	US EPA 8260D	µg/L	1	1	< RL
Tetrachloroethylene	127-18-4	US EPA 8260D	µg/L	1	1	< RL
Conclusion						Comply

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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20.Organotin Compounds^

Parameter	Parameter Code	Test Method	Unit	RL	Sample No.	R001
					ZDHC Limit	Result
Mono-,di-and tri-methyltin derivatives	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Mono-,di-and tri-butyltin derivatives	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Mono-,di-and tri-phenyltin derivatives	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Mono-,di-and tri-octyltin derivatives	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Dipropyltin compounds (DPT)	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Tetrabutyltin compounds (TeBT)	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Tripropyltin Compounds (TPT)	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Tetraoctyltin compounds (TeOT)	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Tricyclohexyltin (TCyHT)	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Tetraethyltin Compounds (TeET)	Multiple	ISO 17353	µg/L	0.01	0.01	< RL
Conclusion						Comply

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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21. Other / Miscellaneous Chemicals^

Parameter	Parameter Code	Test Method	Unit	RL	Sample No.	R001
					ZDHC Limit	Result
AEEA [2-(2-aminoethylamino) ethanol]	111-41-1	Liquid extraction, LC-MS-MS	µg/L	500	500	< RL
Bisphenol A	80-05-7	Liquid extraction, LC-MS-MS	µg/L	10	10	< RL
Thiourea	62-56-6	Liquid extraction, LC-MS-MS	µg/L	50	50	< RL
Quinoline	91-22-5	Liquid extraction, LC-MS-MS	µg/L	50	50	< RL
Borate, zinc salt	12767-90-7	EPA 6020a	µg/L	50	100	B<RL,Zn<RL
Conclusion						Comply

Abbreviation: < = less than
 RL = reporting limit
 µg/L = microgram per liter

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22. Perfluorinated and Polyfluorinated Chemicals (PFCs)^

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Perfluorooctane sulfonate (PFOS) and related substances	Multiple	EPA 8270, PFCs: LC-MS-MS FTOH: GC-MS	µg/L	0.01	0.01	< RL
Perfluorooctanoic acid (PFOA) and related substances	Multiple	EPA 8270, PFCs: LC-MS-MS FTOH: GC-MS	µg/L	1	1	< RL
Conclusion						Comply

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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23. Phthalates - Including all other esters of phthalic acid^

Parameter	Parameter Code	Test Method	Unit	RL	Sample No.	R001
					ZDHC Limit	Result
Di(ethylhexyl) phthalate (DEHP)	117-81-7	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Bis(2-methoxyethyl) phthalate(DMEP)	117-82-8	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-iso-decyl phthalate (DIDP)	26761-40-0	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-Isononyl Phthalate (DINP)	28553-12-0	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-n-hexyl phthalate (DnHP)	84-75-3	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-n-butyl phthalate (DBP)	84-74-2	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Butyl benzyl phthalate (BBP)	85-68-7	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Dinonyl phthalate (DNP)	84-76-4	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Diethyl phthalate (DEP)	84-66-2	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-n-propyl phthalate (DPRP)	131-16-8	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-isobutyl phthalate (DIBP)	84-69-5	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-cyclohexyl phthalate (DCHP)	84-61-7	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-iso-octyl phthalate (DIOP)	27554-26-3	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4; 68515-50-4	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6; 84777-06-0	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Di-n-pentylphthalates	131-18-0	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Diisopentylphthalates	605-50-5	US EPA 8270E, ISO 18856	µg/L	10	10	< RL
Conclusion						Comply

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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24.Polycyclic Aromatic Hydrocarbons (PAHs)^

Parameter	Parameter Code	Test Method	Unit	RL	Sample No.	R001
					ZDHC Limit	Result
Benzo(a)pyrene	50-32-8	US EPA 8270E	µg/L	1	1	< RL
Anthracene	120-12-7	US EPA 8270E	µg/L	1	1	< RL
Pyrene	129-00-0	US EPA 8270E	µg/L	1	1	< RL
Benzo[ghi]perylene	191-24-2	US EPA 8270E	µg/L	1	1	< RL
Benzo(e)pyrene	192-97-2	US EPA 8270E	µg/L	1	1	< RL
Indeno[1,2,3-cd]pyrene	193-39-5	US EPA 8270E	µg/L	1	1	< RL
Benzo(j)fluoranthene	205-82-3	US EPA 8270E	µg/L	1	1	< RL
Benzo[b]fluoranthene	205-99-2	US EPA 8270E	µg/L	1	1	< RL
Fluoranthene	206-44-0	US EPA 8270E	µg/L	1	1	< RL
Benzo[k]fluoranthene	207-08-9	US EPA 8270E	µg/L	1	1	< RL
Acenaphthylene	208-96-8	US EPA 8270E	µg/L	1	1	< RL
Chrysene	218-01-9	US EPA 8270E	µg/L	1	1	< RL
Dibenz(a,h)anthracene	53-70-3	US EPA 8270E	µg/L	1	1	< RL
Benzo[a]anthracene	56-55-3	US EPA 8270E	µg/L	1	1	< RL
Acenaphthene	83-32-9	US EPA 8270E	µg/L	1	1	< RL
Phenanthrene	85-01-8	US EPA 8270E	µg/L	1	1	< RL
Fluorene	86-73-7	US EPA 8270E	µg/L	1	1	< RL
Naphthalene	91-20-3	US EPA 8270E	µg/L	1	1	< RL
Conclusion						Comply

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				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Benzo(a)pyrene	50-32-8	HJ 805-2016	mg/kg	0.2	< RL
Anthracene	120-12-7	HJ 805-2016	mg/kg	0.2	< RL
Pyrene	129-00-0	HJ 805-2016	mg/kg	0.2	< RL
Benzo[ghi]perylene	191-24-2	HJ 805-2016	mg/kg	0.2	< RL
Benzo(e)pyrene	192-97-2	HJ 805-2016	mg/kg	0.2	< RL
Indeno[1,2,3-cd]pyrene	193-39-5	HJ 805-2016	mg/kg	0.2	< RL
Benzo(j)fluoranthene	205-82-3	HJ 805-2016	mg/kg	0.2	< RL
Benzo[b]fluoranthene	205-99-2	HJ 805-2016	mg/kg	0.2	< RL
Fluoranthene	206-44-0	HJ 805-2016	mg/kg	0.2	< RL
Benzo[k]fluoranthene	207-08-9	HJ 805-2016	mg/kg	0.2	< RL
Acenaphthylene	208-96-8	HJ 805-2016	mg/kg	0.2	< RL
Chrysene	218-01-9	HJ 805-2016	mg/kg	0.2	< RL
Dibenz(a,h)anthracene	53-70-3	HJ 805-2016	mg/kg	0.2	< RL
Benzo[a]anthracene	56-55-3	HJ 805-2016	mg/kg	0.2	< RL
Acenaphthene	83-32-9	HJ 805-2016	mg/kg	0.2	< RL
Phenanthrene	85-01-8	HJ 805-2016	mg/kg	0.2	< RL
Fluorene	86-73-7	HJ 805-2016	mg/kg	0.2	< RL
Naphthalene	91-20-3	HJ 805-2016	mg/kg	0.2	< RL
Conclusion					Report Only

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter
 mg/kg = milligram per kilogram

Remark:

The limits according to ZDHC limit (Table 4C of ZDHC Wastewater Guidelines Version 2.1 issued in November 2022):

Parameter	ZDHC Sludge Limit (mg/kg)						
	A	B	C	D	E	F	G
Sludge Type							
PAHs	Sample and Report only			0.2	0.2	0.2	0.2

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25.Restricted Aromatic Amines(Cleavable from Azo)^

Parameter	Parameter Code	Test Method	Unit	Sample No.		R001
				RL	ZDHC Limit	Result
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4,4'-diaminodiphenylmethane	101-77-9	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4,4'-oxydianiline	101-80-4	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-chloroaniline	106-47-8	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
3,3'-Dimethoxybenzidine	119-90-4	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
3,3'-Dimethylbenzidine	119-93-7	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
6-Methoxy-m-toluidine	120-71-8	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
2,4,5-trimethylaniline	137-17-7	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4,4'-Thiodianiline	139-65-1	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-aminoazobenzene	60-09-03	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-methoxy-m-phenylenediamine	615-05-4	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4,4'-Methylenedi-o-toluidine	838-88-0	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
2,6-xylidine	87-62-7	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
o-anisidine	90-04-0	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
2-naphthylamine	91-59-8	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
3,3'-Dichlorobenzidine	91-94-1	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-Aminobiphenyl	92-67-1	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
benzidine	92-87-5	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
o-toluidine	95-53-4	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
2,4-xylidine	95-68-1	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-chloro-o-toluidine	95-69-2	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-methyl-m-phenylenediamine	95-80-7	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
o-Aminoazotoluene	97-56-3	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
5-nitro-o-toluidine	99-55-8	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-chloro-o-toluidinium chloride	3165-93-3	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
2-Naphthylammonium acetate	553-00-4	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
4-methoxy-m-phenylene diammonium sulphate	39156-41-7	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
2,4,5-trimethylaniline hydrochloride	21436-97-5	Reduction, EPA 8270	µg/L	0.1	0.1	< RL
Conclusion						Comply

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

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26.UV Absorbers^

Parameter	Parameter Code	Test Method	Unit	RL	Sample No.	R001
					ZDHC Limit	Result
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	100	100	< RL
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	100	100	< RL
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	100	100	< RL
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	µg/L	100	100	< RL
Conclusion						Comply

Abbreviation: < = less than
 RL = reporting limit
 µg/L = microgram per liter

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27. Volatile Organic Compounds (VOC)^

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Benzene	71-43-2	ISO 11423-1	µg/L	1	1	< RL
Xylene	1330-20-7	ISO 11423-1	µg/L	1	1	< RL
o-cresol	95-48-7	ISO 11423-1	µg/L	1	1	< RL
p-cresol	106-44-5	ISO 11423-1	µg/L	1	1	< RL
m-cresol	108-39-4	ISO 11423-1	µg/L	1	1	< RL
Toluene*	108-88-3	ISO 11423-1	µg/L	1	1	< RL
Conclusion						Comply

Abbreviation: < =less than
 RL =reporting limit
 µg/L = microgram per liter

Remark:

- * Sample and report only for mock leather
- ^ Indicates that the item is tested in TÜV Rheinland (Shanghai) Co., Ltd.

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Sampling Point Indication (Map)

Location GPS: Discharged Wastewater: 35.45, 118.36

Raw Wastewater: 35.45, 118.36

Sludge: 35.45, 118.36

Location GPS (N35°45' E118°36')



Sampling Photo



Factory Gate



Factory Map



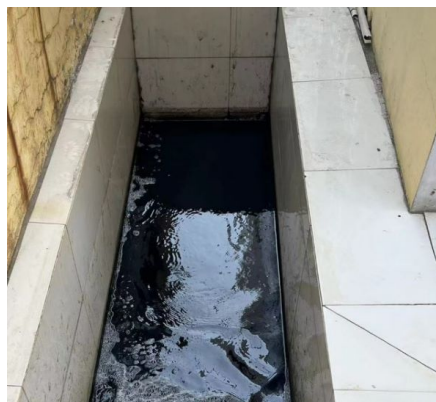
Other Factory Photo



Other Factory Photo



Discharged Wastewater



Discharged Wastewater

Sampling Photo



Raw Wastewater



Raw Wastewater



Sludge



Sludge

- END -

General Terms and Conditions of Business of TÜVRheinland in Greater China

1. **Scope**
 - 1.1 These General Terms and Conditions of Business of TÜVRheinland in Greater China ("GTBCB") is made between the client and one or more member entities of TÜVRheinland in Greater China as applicable as the case may be ("TÜVRheinland"). The Greater China here refers to Mainland China, Hong Kong and Taiwan. The client hereof includes
 - (a) a natural person capable of forming legal contracts under the applicable laws who concludes the contract not for the purpose of a daily use;
 - (b) 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 other standard contractual terms of the client shall form part of the contract even if TÜVRheinland does not explicitly object to them.
 - 1.4 In the event of an ongoing business relationship with the client, this GTBCB shall also apply to future contracts with the client without TÜVRheinland having to refer to them separately in each individual case.
 2. **Quotations**
 - Unless otherwise agreed, all quotations submitted by TÜVRheinland can be changed by TÜVRheinland 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 TÜVRheinland or a separate contractual document being signed by both contracting parties, or upon the request by the client being carried out by TÜVRheinland. If the client instructs TÜVRheinland without receiving a quotation from TÜVRheinland to carry out the work, it is 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 a fixed term contract, the contract term will be extended by the term provided for in the contract unless terminated in writing by either party with a three-month 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 TÜVRheinland shall be specified in the contractually agreed service scope of TÜVRheinland by both parties. If no such separate service scope of TÜVRheinland exists, then the written contract or order by TÜVRheinland shall be decisive for the service to be provided. Unless otherwise agreed, services beyond the scope of the service description (e.g. checking the correctness and functionality of parts, process, process, and installations, organizations not listed in the service description, as well as the intended use and application of such) are not covered. In particular, no responsibility is assumed for the design, selection of materials, construction and use of an examined part, process, process or plant, unless this is expressly stated in the order.
 - 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 TÜVRheinland 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 (regarding quality and working conditions) of either tested or examined parts nor of the installation as a whole and its upstream and/or downstream processes, organizations, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜVRheinland 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, TÜVRheinland shall not be responsible for the accuracy or checking of the safety regulations or safety requirements for the agreed service scope unless otherwise expressly agreed in writing.
 - 4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope affect construction, TÜVRheinland shall be responsible 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.
 - 4.7 The services to be provided by TÜVRheinland under the contract are agreed exclusively with the client. A contracting of third parties with the services of TÜVRheinland, as well as making available of a justifying confidence in the work results (test reports, test results, expert reports, etc.) is not part of the agreed services under the contract and work results are, in full or in part, in extracts - to third parties in accordance with clause 11.4.
 - 4.8 The client understands and agrees that in order to perform the contract with TÜVRheinland, the client may need to sign or enter into contracts or agreements with a third party(ies) and establish legal relationships with that/those third party(ies) according to such contractual agreements. TÜVRheinland shall not be responsible for the construction, selection of materials to this contract and the direct services actually to be provided by our company in the service process. If the relevant services are not directly provided by TÜVRheinland (including but not limited to any testing and assessment of safety requirements for the agreed service scope (bodies)), TÜVRheinland will provide the client as agent for such relevant services. In order to achieve the purpose of the contract, the client hereby agrees that TÜVRheinland can also subcontract to a third party(ies) and/or subcontract to a third party(ies) any part of the contract, including responsibility and/or risk for any services to be provided by any third parties (including but not limited to the testing and/or certification services to be entrusted and/or applied for by our company on behalf of the client for third testing and/or certification bodies or agency services provided by any other third party(ies)). Besides, the client shall be liable in accordance with the relevant laws and regulations actually in force at the time of the contract for the construction of any annual review/surveillance of the relevant testing and/or certification service results and pay additional fees in accordance with the relevant laws and regulations or the testing and certification rules, such as not in the case of the contract. The client shall be responsible for the obligation of such annual review/surveillance and pay the corresponding fees. If the client fails to perform such obligations of the annual review/surveillance or fees payment, it may lead to adverse consequences such as suspension/revocation of the client's approval or other consequences, which shall not be borne by TÜVRheinland.
 - 4.9 For the service contract, if the client requires TÜVRheinland to deliver relevant test samples, data, etc. to any overseas laboratory or other places or sites to be designated by the client, TÜVRheinland shall not bear any responsibilities or risks for any problems during such delivery and the transportation, including but not limited to any loss or damages of the samples and/or the materials, etc.). Besides, the relevant freight fees shall be borne by the client.
 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 TÜVRheinland 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 TÜVRheinland.
 - 5.3 Articles 5.1 and 5.2 also apply, even without express agreement by the client, to all extensions of agreed periods of performance of TÜVRheinland.
 - 5.4 TÜVRheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his duties to cooperate in accordance with the contract. In particular, if the client has not provided TÜVRheinland with all documents and information required for the performance of the service as specified in the contract.
 - 5.5 If the performance of TÜVRheinland is delayed due to unforeseeable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., TÜVRheinland 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.
 - 5.6 If the client is obliged to comply with legal, officially prescribed and/or by the accreditator prescribed deadlines, it is the client's responsibility to agree on performance dates with TÜVRheinland, which enables the client to comply with the legal and/or officially prescribed deadlines. TÜVRheinland assumes no responsibility in this respect unless TÜVRheinland has been explicitly asked to writing specifically stating that ensuring the deadlines is the contractual obligation of TÜVRheinland.
 6. **The client's obligation to cooperate**
 - 6.1 The client shall guarantee that all cooperation required on his part, its agents or third parties will be provided in good time and at no cost to TÜVRheinland.
 - 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 behaviors 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, TÜVRheinland is entitled to i) immediately terminate the contract without prior notice, and ii) withdraw the issued testing/recertification 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 the client or cooperation from the client. Even where a fixed or maximum price is agreed, TÜVRheinland 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 plus margin. In the case of a written, invoicing shall be made in accordance with the price list of TÜVRheinland valid at the time of performance.
 - 7.2 If the execution of the work is not agreed in writing, the client shall be liable for the contract or the agreed fixed price exceeds €2,500.00 or equivalent value in local currency, TÜVRheinland shall be entitled to demand appropriate advance payments.
 8. **Payment terms**
 - 8.1 All invoice amounts shall be due for payment within 30 days of the invoice date 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 TÜVRheinland as indicated on the invoice, stating the invoice and client numbers.
 - 8.3 In cases of default of payment, TÜVRheinland 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 TÜVRheinland is located. At the same time, TÜVRheinland 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, TÜVRheinland shall be entitled to cancel the contract, withdraw the returned claim, damages for non-performance and refuse to provide further services.
 - 8.5 The provisions set forth in article 8.4 shall also apply in cases involving certified, cheque, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dispensed due to proper objections to the invoices of TÜVRheinland shall be submitted in writing within two weeks of receipt of the invoice.
 - 8.7 TÜVRheinland shall be entitled to demand appropriate advance payments.
 - 8.8 TÜVRheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, the client 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 - changes in fees). If the rise in fees remains under 5% per contractual year, the client shall not have the right to object. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the contractual year. The client shall be liable for the costs of the change of fees. The client shall be deemed to have 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 TÜVRheinland. TÜVRheinland shall have the right at all times to setoff any amount due or payable by the client, including but not limited to claims for damages, claims for interest, claims for attorney's fees and/or orders/quotations reached with TÜVRheinland.
 9. **Acceptance of work**
 - 9.1 Any part of the work result ordered which is complete in itself may be presented by TÜVRheinland 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 of the work, unless the client releases acceptance within this period stating at least one fundamental breach of contract by TÜVRheinland.
 - 9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜVRheinland.
 - 9.4 If acceptance is excluded according to the nature of the work performance of TÜVRheinland, the completion of the work shall take its place.
 - 9.5 During the Follow-Audit stage, 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 TÜVRheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), or if the client cancels or postpones a confirmed audit date within two (2) weeks before the agreed date, TÜVRheinland is entitled to immediately charge a lump-sum compensation of 10% of the order amount (including the cost of preparation for expenses. The client is responsible for the cost of TÜVRheinland incurred no damage whatsoever or a considerably lower damage than the above lump sum.
 - 9.6 In the case of the client's undertaking to accept a certification procedure, TÜVRheinland is also 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 provide the TÜVRheinland with 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 know-how, trade secrets, technical data, drawings, designs, specifications, test reports, test results, expert reports, samples, project documents, pricing and financial information, customer and supplier information, and marketing techniques and materials, tangible or intangible, that are supplied, transferred or otherwise disclosed by one party ("disclosing party") to the other party ("receiving party") in writing or orally, in printed or electronic form. Confidential information is expressly not the data and know-how collected, compiled or otherwise obtained by TÜVRheinland (non-personal and not proprietary to the client) within the scope of the provision of services by TÜVRheinland. TÜVRheinland 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 for the provision of services.
 - 10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential and shall take appropriate measures to ensure that confidential information is not transmitted by e-mail. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days after disclosure. Where the disclosing party fails to do so within the stipulated period, the receiving party shall not take any confidentiality obligations towards such information. The client shall avoid using any third party platform and/or service (e.g. cloud services) for the purpose of disclosing confidential information to TÜVRheinland. Instead, the client shall send any confidential information to company email of TÜVRheinland employees through its company website or by mail. TÜVRheinland shall be liable for any data or leakages to be caused by the adoption of any unauthorized confidential information sharing methods mentioned above. TÜVRheinland shall be waived for any confidentiality obligations.
 - 10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and is created during performance of work by TÜVRheinland, or which may be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party,
 - a) shall not be copied, distributed, published or otherwise disclosed by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TÜVRheinland is required to pass on confidential information, inspection reports or documentation to the government authorities, judicial authorities or accreditation bodies; and
 - b) shall not be used by the receiving party for any other purpose, unless expressly otherwise agreed in writing by the disclosing party.
 - 10.4 The receiving party may disclose any confidential information received from the disclosing party to its subcontractors and/or subcontracted services, but not limited to the relevant direct and/or indirect proposed purchasers, vehicle manufacturers/wholesaler equipment manufacturers, test standards or test equipment providers of the client's test products and/or certified products, etc. The receiving party shall ensure that the confidentiality of the confidential information is not breached. The receiving party shall be liable for any disclosure of confidential information to third parties, but not limited to the relevant direct and/or indirect proposed purchasers, vehicle manufacturers/wholesaler equipment manufacturers, test standards or test equipment providers of the client's test products and/or certified products, etc. The receiving party shall ensure that the confidentiality of the confidential information is not breached. The receiving party shall be liable for any disclosure of confidential information to third parties, but not limited to the relevant direct and/or indirect proposed purchasers, vehicle manufacturers/wholesaler equipment manufacturers, test standards or test equipment providers of the client's test products and/or certified products, etc.
 - 10.5 The receiving party shall be liable for any disclosure of confidential information to third parties, but not limited to the relevant direct and/or indirect proposed purchasers, vehicle manufacturers/wholesaler equipment manufacturers, test standards or test equipment providers of the client's test products and/or certified products, etc. The receiving party shall ensure that the confidentiality of the confidential information is not breached. The receiving party shall be liable for any disclosure of confidential information to third parties, but not limited to the relevant direct and/or indirect proposed purchasers, vehicle manufacturers/wholesaler equipment manufacturers, test standards or test equipment providers of the client's test products and/or certified products, etc.
 - 10.6 All confidential information shall remain the property of the disclosing party. The receiving party shall be liable for any disclosure of confidential information to third parties, but not limited to the relevant direct and/or indirect proposed purchasers, vehicle manufacturers/wholesaler equipment manufacturers, test standards or test equipment providers of the client's test products and/or certified products, etc. The receiving party shall ensure that the confidentiality of the confidential information is not breached. The receiving party shall be liable for any disclosure of confidential information to third parties, but not limited to the relevant direct and/or indirect proposed purchasers, vehicle manufacturers/wholesaler equipment manufacturers, test standards or test equipment providers of the client's test products and/or certified products, etc.
 - 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 TÜVRheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results calculations, presentations etc. prepared by TÜVRheinland, unless otherwise agreed by the client in a separate agreement. In the case of the exclusive copyrights, TÜVRheinland is free to grant others the right to use the work results for individual or all types 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 client in a separate agreement. The client is entitled to use the work results, test reports/results, results calculations, presentations etc. prepared within the scope of the contract for the contractually agreed purpose.
 - 11.3 The client is entitled to use the results of the generated work results regulated in clause 11.2 of the GTBCB as subject to full payment of the remuneration agreed in favour of TÜVRheinland.
 - 11.4 The client is entitled to use the results of the generated work results only if they only pass on the work results in full unless TÜVRheinland 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 and any quotation of the introduction of TÜVRheinland need the prior written approval of TÜVRheinland in each individual case. Besides, the client ensures that the aforesaid use shall comply with relevant applicable laws, regulations and relevant rules (including but not limited to specific applicable testing and certification rules, etc.).
 - 11.6 TÜVRheinland may revoke a 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 client is not entitled to use the work results for the purpose of advertising or to disclose the client to use the corporate logo, corporate design or trademark/mark of TÜVRheinland.
12. **Liability of TÜVRheinland**
 - 12.1 In respect 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 TÜVRheinland for all damages, losses and reimbursement of expenses caused by TÜVRheinland, 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 an annually recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged for 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. The maximum amount of liability shall be limited to the amount of damages caused by the breach of the contract and the total 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 TÜVRheinland shall be only limited to the amount of damages caused by the breach of the contract 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 TÜVRheinland or its employees. 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, TÜVRheinland will be liable even for minor negligent acts or omissions for the purpose of a "fundamental breach": a 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 foreseeably 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 TÜVRheinland shall not be liable for the acts of the personnel made available by the client to support TÜVRheinland in the performance of its services under the contract, unless such personnel have been made available in violation of the contract. If TÜVRheinland is liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify itself against any claims made by third parties arising from, in or connection with such personnel's acts.
 - 12.5 Unless otherwise contractually agreed in writing, TÜVRheinland 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 TÜVRheinland to third parties in Greater China or other regions, the client must comply with the 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 export trade legislation or embargoes and/or sanctions. In the event of a violation, TÜVRheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereof by TÜVRheinland.