No.: 70.452.22.12992.01



Date: 2022-12-09

Applicant: Address:	POLYGROUP PACIFIC LTD UNIT 606, 6TH FLOOR, FAIRMONT HOUSE, 8 COTTON TREE DRIVE, CENTRAL, HONG KONG
Product Name/ Item No.:	8FT Summer Waves® Transparent Quick Set® Pool/ P10008304
Receipt Date of Sample:	2022-09-20, 2022-10-19
Date of Testing:	2022-09-20 to 2022-10-25
Sample Submitted:	The sample(s) was (were) submitted by applicant and identified.
Test Result:	Refer to the data listed in following pages

Tes	t Item	Conclusion
1.	EN 16927:2017 Mini-pools - Specific requirements including safety and test methods for mini-pools	Pass
2.	Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
3.	Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation(EC) No 1907/2006 with its Amendments	Pass
4.	Organotin Content Requirement in Annex XVII, Item 20 of the REACH Regulation(EC) No 1907/2006 with its Amendments	Pass
5.	Polycyclic Aromatic Hydrocarbons (PAHs) Content in Annex XVII item 50 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
6.	Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)	Pass
7.	Phthalates content	Pass
8.	Screening of 224 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No.1907/2006 (REACH)	<0.1%(W/W)
	Screening of 10 Substances of Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No 1907/2006 concerning the REACH.	

- Remarks: 1. MDL = Method Detection Limit
 - 2. ND = Not Detected (<MDL)
 - 3. <= Less than
 - 4. 1 mg/kg = 1 ppm = 0.0001%

No.: 70.452.22.12992.01 Date: 2022-12-09



TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch Testing Center

Prepared by:

Jenny Yao

Technical Engineer



Authorized by:

Sawyer Tang **Technical Manager**

Note: (1)

- The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied. Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see "Testing and certification regulation", chapter A-3.4 For full version, please visit: EN : https://www.tuvsud.cn/zh-cn/resource/terms-and-conditions---en ; SCN: https://www.tuvsud.cn/zhcn/terms-and-conditions ; TCN: https://www.tuvsud.com/zh-tw/terms-and-conditions.
- The results relate only to the Items tested.
 The test report shall not be reproduced exit
 Disclaimer Measurement Uncertainty:

(3) The test report shall not be reproduced except in full without the written approval of the laboratory

4) Disclaimer Measurement Uncertainty: Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.



No.: 70.452.22.12992.01 Date: 2022-12-09



Description of the Tested Subject

Sample	Description	Photo
001	8FT Summer Waves® Transparent Quick Set® Pool (P10008304)	

Note: Electronic version of the instruction and packaging for pool was provided by the applicant for evaluation. Only English version was evaluated in this report.

T. No	Sample	Description	
T1	002	White/transparent soft plastic with colorful printing (body)	
T2	003	Transparent soft plastic (body)	
T3	004	Light blue soft plastic (body)	
T4	005	Black soft plastic (filling pipe)	
T5	006	Black plastic (cap)	
T6	007	Light grey soft plastic	
T7	008	Light grey plastic (valve)	
T8	009	Black soft plastic washer (in valve)	
T9	010	Light grey soft plastic (valve)	
T10	011	Transparent soft plastic (repair stick)	

No.: 70.452.22.12992.01



Date: 2022-12-09

Test Results

1. EN 16927:2017 Mini-pools - Specific requirements including safety and test methods for mini-pools (For sample 001)

Clause	Requirements	Result	Verdic					
4	General requirements and test methods							
4.1	General							
	When installed according to the installation and maintenance manual and during	Complied	P					
	use, the mini-pool shall meet the requirements of this document.							
	When a membrane is used as a watertight system, it is not mandatory to have a							
	minimum thickness, as long as the mini-pools structure passes the performance							
	requirements specified in 4.2 to 4.5.							
	All the tests are performed on the same sample.							
4.2	Mini-pools with frame-supported walls and rigid walls							
1.2.1	Resistance to horizontal deformation							
	On completion of the test defined in 4.2.1.2, the mini-pool shall not collapse or	Self-	NA					
	suffer any permanent deformation affecting its structural integrity (e.g. creating	stabilizing						
	sharp edges, visual breakings, etc.).	walls						
.2.2	Resistance to vertical deformation							
	On completion of the test defined in 4.2.2.2, the mini-pool shall not collapse or	Self-	NA					
	suffer any permanent deformation affecting its structural integrity (e.g. creating	stabilizing						
	sharp edges, visual breakings, etc.).	walls						
.2.3	Bursting strength							
	The bursting strength test defined in 4.2.3.3 is performed after carrying out the	Self-	NA					
	resistance tests for horizontal deformation (4.2.1.2) and vertical deformation	stabilizing						
	(4.2.2.2).	walls						
	On completion of the test defined in 4.2.3.3, the pool shall not burst and shall not							
	suffer any permanent deformation affecting the product's resistance.							
.3	Mini-pools with self-stabilizing or inflatable walls							
4.3.1	Capacity to stop an overflow							
	On completion of the tests described in 4.3.1.2 and in 4.3.1.3, the mini-pool shall	Complied	P					
	not collapse and lose its water retention capability.	00.00 p.10 a						
	Mini-pool overflow							
	- Install the mini-pool, according to the manufacturer's instructions, on a flat							
	horizontal ground (maximum slope allowed is 5 mm/m);							
	- Fill the mini-pool until it overflows with a flow rate of 2,5 m3/h minimum and							
	allow it to overflow for 1 min.							
	Behaviour test of the wall under load							
	— Fill the mini-pool with water to the maximum filling level recommended by the							
	manufacturer.							
	— Place on the tube a 0,50 m long half pipe with a minimum inside diameter of							
	0,25 m ballasted with one 40 kg weight on each side.							
	— Maintain the load for 3 s at the tube's maximum deflection, the weights being							
	liable to touch the ground.							
	- Lift the load up immediately after 3 s making sure that the loading device does							
	not interfere during this operation							
	NOTE In the case of mini-pools fitted with a strut, this test is performed at the							
	most unfavourable point.							
4.3.2	Inflatable compartments		-					
	All of the air inlets provided for inflation shall be fitted with caps permanently	Complied	P					
	secured on an accessible part of each inflatable compartment of the mini-pool.							





Date: 2022-12-09

Clause	Requirements	Result	Verdict
	Once this part is inflated, the caps located inside the mini-pool shall be able to be pushed back inside the upper part so that they do not protrude from the surface by more than 5 mm.		
	The caps of the inflation ports should not be able to become detached and should be protected against accidental removal. The valves shall be fitted in order to		
	prevent an instantaneous deflation.		
4.3.3	Stability in the event of deflation of the upper tube of mini-pool with self-stabi		
	On completion of the test described in 4.3.3.2, the mini-pool with self-stabilizing walls shall not collapse.	Complied	Р
4.3.4	Bursting strength		1
	On completion of the test defined in 4.3.4.2, the mini-pool with self-stabilizing walls shall not burst and shall not present any permanent deformation affecting the product's resistance.	Complied	P
4.4	Tolerances		1
	The indicated dimensions and measurements are given with a tolerance of ± 3 % (unless otherwise indicated). Mini-pools with self-stabilizing or inflatable walls commonly have larger acceptable tolerances.	Complied	Р
4.5	Minimum performance requirements for structural materials		
4.5.1	General		
	The structural design and materials shall be in accordance with accepted structural engineering practices. Selection of materials for the construction of the mini-pool shall be conducted under consideration of external influences, including but not limited to temperature, UV, chemicals, etc., when appropriate, that may influence the structural integrity of the material. Any combination of different materials in direct contact with each other shall be compatible and not negatively affect each other's properties or structural integrity. The requirements of this section do not apply to non-structural elements of the mini-pool, including, but not limited to, elements with solely decorative function.	was provided	
4.5.2	Specific requirements and testing for corrosion resistance		
4.5.2.1	Metal products		
	Subject a sample per type of metallic surface (other than aluminium) of the wall, before fitting, to a salt spray for 96 h in accordance with EN ISO 9227. At the end of the test, evaluate the results obtained by reference to the requirements of EN ISO 4628-3. The number of rust specks on the surface should conform to class RI 1 or lower.	No Metal	NA
4.5.2.2	Wood		
	Structural elements made of wood or wood-based material shall meet the following requirements according to EN 335: — use class 3 if they are not in direct contact with ground and / or fresh water — use class 4 if they are in direct contact with ground and / or fresh water Compatible woods may be chosen according to two distinct approaches: — using naturally durable woods (excluding sapwood) as defined in EN 350, that meet the requirements for use in applicable hazard classes in EN 460. — using wood with conferred durability (preservation treatments while conserving the sapwood), that meets the requirements for use in applicable hazard classes in EN 351-1.	No Wood	NA
4.6	Injury risks		
4.6.1	Small elements, edges and corners		





Date: 2022-12-09

Clause	Requirements	Result	Verdict	
	When the mini-pool is being used, any protrusion on accessible parts liable to	Compiled	Р	
	present a risk of injury shall be protected by a method which in order to be			
	removed, requires the use of a tool or a minimum amount of force of 60 N, with an			
	accuracy of 2 N.			
	During the installation, equipment made of wood, fibreglass, or other materials			
	shall be free of splinters.			
	Small accessible and grippable elements shall not fully enter into the template or			
	they shall be fixed to the item to which they belong such that they cannot be			
	detached under a force of 60 N, with an accuracy of 2 N, applied in any direction			
	whatsoever.			
	All edges, protruding parts and corners accessible without use of tools or			
	minimum amount of force of 60 N (±2 N) shall be designed not to cause any			
	injury. When necessary they shall be treated appropriately to remove this risk.			
4.6.2	Permissible openings			
4.6.2.1	Principle			
	To prevent entrapment hazards inside the pool structure, accessible openings	See below	Р	
	with the lowest point located beyond 500 mm below the maximum water level		•	
	recommended by the manufacturer shall be restricted to the range of opening or			
	gap size dimensions specified in 4.6.2.2 to 4.6.2.3, unless specifically permitted in			
	other clauses/annexes of this standard and/or parts of this standard series.			
	If the depth of penetration is less than 10mm, no requirements apply.			
4.6.2.2	Finger and toe entrapment			
4.0.2.2	Where there is a risk of finger or toe entrapment, the permissible opening shall be	Complied	Р	
	\leq 8 mm or \geq 25 mm.	Complied	•	
4.6.2.3				
4.0.2.3	Head and neck entrapment		_	
	Where there is a risk of head or neck entrapment, the permissible opening shall	Complied	Р	
	be ≤ 110 mm or ≥ 230 mm.			
	Where an opening is \geq 230 mm it should not permit passage to further			
	entrapment hazards.			
	Where there is a combination of risks, the lesser of the permitted opening sizes			
	shall be used.			
4.6.2.4	Other body entrapment			
	Other permissible openings include the range between 25 mm and 110 mm.	Complied	Р	
	When such openings are necessary for the functionality of the mini-pool or its			
	specific features, the manufacturer shall provide the proper safety instructions for			
	safe operation of such feature and alert the consumer of potential risk of			
	entrapment when applicable.			
4.7	Accessibility			
	The mini-pools being lower than 850 mm wall height can be accessed relatively	No specific	Р	
	easily therefore constant adult supervision of children is imperative and the only	means of		
	reliable method of ensuring children safety.	access is		
	The risk of drowning is reasonably foreseeable and especially high for children	used and		
	under 5 years.	adult		
	Accordingly, it is necessary for the adult supervisor to keep the children under	supervisor		
	competent supervision at all times.	was		
	Furthermore keep a telephone or a means of communication near the pool in	recommend		
	order to be able to call the emergency services.	ed.		
	Even when the pool is not in use, the following actions shall be considered:			
	— make the mini-pool inaccessible if possible (e.g. lock doors, windows and			
	access paths to the mini-pool);			
	and/or			
	— install a protection device; and/or			
	— empty the mini-pool.			
	If a specific means of access is used (e.g. ladder) such means of access shall			
	comply with requirements for safe means of access specified in EN 16582-			
atory:	Phone: +86 21 60376300 Regd. Office:			

Laboratory: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, Testing Center No. 1999, Du Hui Road, Minhang District, Shanghai

Phone: +86 21 60376300 Fax: +86 21 60376350 https://www.tuvsud.com

Regd. Office: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, TÜV SÜD Group Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

Page 6 of 28





Date: 2022-12-09

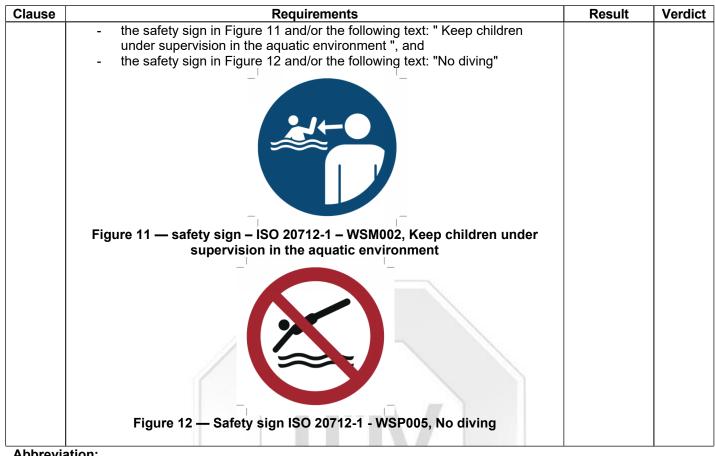
Clause	Requirements	Result	Verdict							
5	1:2015, 5.4.4. Instructions for the consumer									
<u>5</u> 5.1	General principles									
0.1	All documents shall contain:									
	the following statement: "Please read carefully and keep for future reference";	Complied	P							
	the information to identify the model of the basin, mini-pool to which the document	Complied	P							
	relates;	Complied								
	the name and contact information of the person responsible for placing the	Complied	P							
	product on the market (manufacturer, distributor or importer).	- 1								
	All instructions shall be legible, clear, comprehensible to the buyer and written in	Complied	P							
	official national languages where the product is sold.	•								
	For better comprehension, the use of illustrations is recommended.	Complied	Р							
	When the instructions contain several pages, the manuals shall have numbered	Complied	Р							
	pages.	•								
	The cautions and warnings shall be highlighted.	Complied	P							
	Illustrations, if any, shall be placed such that they can be seen while the text	Complied	P							
	referring to them is being read.									
	The visuals shall not contradict the requirements included in this document.	Complied	P							
	Where it is not specified in other rules and/or it does not conflict with existing									
	regulations, the manufacturer's instructions need to be considered.									
5.2	Point-of-purchase information									
	To allow the buyer to make a choice, the point-of-purchase information shall indicate		1							
	the reference to this document and its following parts if applicable;	Complied	P							
	the commercial name or reference;	Complied	P							
	the maximum total overall dimension;	Complied	P							
	the maximum volume of water as specified by the manufacturer	Complied	P							
	in case of mini-pools with rigid walls, the obligation not to install the mini-pool in	-	NA							
	the ground;									
	safety information and/or pictograms related to the following:	Complied	P							
	 awareness of the risk of drowning in the mini-pool; 									
	 adult supervision of children. 									
5.3	Installation and maintenance information									
	Mini-pools shall be accompanied by information necessary or applicable for correct set up and proper use									
	and maintenance, such as but not limited to:									
	selection of appropriate location to prevent the hazard of drowning of young	Complied	P							
	children, install the mini-pool in a place where it is possible for the supervision to									
	he constant:									
	be constant;	Complied								
	the list of all of the parts and the description of the installation phases in	Complied	Р							
	the list of all of the parts and the description of the installation phases in chronological order;	Complied								
	the list of all of the parts and the description of the installation phases in chronological order; the list of the tools required for the installation and of the materials	Complied	P NA							
	the list of all of the parts and the description of the installation phases in chronological order; the list of the tools required for the installation and of the materials complementary to the installation of the mini-pool as well as its use;	-	NA							
	the list of all of the parts and the description of the installation phases in chronological order; the list of the tools required for the installation and of the materials complementary to the installation of the mini-pool as well as its use; the address or telephone number or email address where the consumer can	Complied - Complied								
	the list of all of the parts and the description of the installation phases in chronological order; the list of the tools required for the installation and of the materials complementary to the installation of the mini-pool as well as its use; the address or telephone number or email address where the consumer can obtain additional information during the installation of the mini-pool, in the event of	-	NA							
	the list of all of the parts and the description of the installation phases in chronological order; the list of the tools required for the installation and of the materials complementary to the installation of the mini-pool as well as its use; the address or telephone number or email address where the consumer can obtain additional information during the installation of the mini-pool, in the event of problems;	- Complied	NA P							
	the list of all of the parts and the description of the installation phases in chronological order; the list of the tools required for the installation and of the materials complementary to the installation of the mini-pool as well as its use; the address or telephone number or email address where the consumer can obtain additional information during the installation of the mini-pool, in the event of problems; the safety instructions	- Complied Complied	NA P P							
	the list of all of the parts and the description of the installation phases in chronological order; the list of the tools required for the installation and of the materials complementary to the installation of the mini-pool as well as its use; the address or telephone number or email address where the consumer can obtain additional information during the installation of the mini-pool, in the event of problems; the safety instructions recommendations concerning the filling level;	- Complied Complied Complied	NA P P P							
	the list of all of the parts and the description of the installation phases in chronological order; the list of the tools required for the installation and of the materials complementary to the installation of the mini-pool as well as its use; the address or telephone number or email address where the consumer can obtain additional information during the installation of the mini-pool, in the event of problems; the safety instructions recommendations concerning the filling level; if applicable, recommendations concerning the inflation level;	Complied Complied Complied Complied	NA P P P P							
	the list of all of the parts and the description of the installation phases in chronological order; the list of the tools required for the installation and of the materials complementary to the installation of the mini-pool as well as its use; the address or telephone number or email address where the consumer can obtain additional information during the installation of the mini-pool, in the event of problems; the safety instructions recommendations concerning the filling level; if applicable, recommendations concerning the inflation level; if appropriate, recommendations concerning the need to monitor bolts and	- Complied Complied Complied	NA P P P							
	the list of all of the parts and the description of the installation phases in chronological order; the list of the tools required for the installation and of the materials complementary to the installation of the mini-pool as well as its use; the address or telephone number or email address where the consumer can obtain additional information during the installation of the mini-pool, in the event of problems; the safety instructions recommendations concerning the filling level; if applicable, recommendations concerning the inflation level; if appropriate, recommendations concerning the need to monitor bolts and screws; splinters or any sharp edges;	Complied Complied Complied Complied Complied	NA P P P P P							
	the list of all of the parts and the description of the installation phases in chronological order; the list of the tools required for the installation and of the materials complementary to the installation of the mini-pool as well as its use; the address or telephone number or email address where the consumer can obtain additional information during the installation of the mini-pool, in the event of problems; the safety instructions recommendations concerning the filling level; if applicable, recommendations concerning the inflation level; if appropriate, recommendations concerning the need to monitor bolts and screws; splinters or any sharp edges; recommendations on winterizing and long-term storage;	Complied Complied Complied Complied Complied Complied	NA P P P P P							
5.4	the list of all of the parts and the description of the installation phases in chronological order; the list of the tools required for the installation and of the materials complementary to the installation of the mini-pool as well as its use; the address or telephone number or email address where the consumer can obtain additional information during the installation of the mini-pool, in the event of problems; the safety instructions recommendations concerning the filling level; if applicable, recommendations concerning the inflation level; if appropriate, recommendations concerning the need to monitor bolts and screws; splinters or any sharp edges;	Complied Complied Complied Complied Complied	NA P P P P P							

Page 7 of 28





Date: 2022-12-09



Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.







2. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation(EC) No 1907/2006 with its Amendments

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002	mg/kg	10.0	100	<10.0	Pass
003+004	mg/kg	10.0	100	<10.0	Pass
005+007+009	mg/kg	10.0	100	<10.0	Pass
006+008	mg/kg	10.0	100	<10.0	Pass
010+011	mg/kg	10.0	100	<10.0	Pass

Test with reference to EN 1122:2001 Method B, determination by ICP-OES

3. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation(EC) No 1907/2006 with its Amendments

Test with reference to in house method, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002	mg/kg	10.0	500	<10.0	Pass
003+004	mg/kg	10.0	500	<10.0	Pass
005+007+009	mg/kg	10.0	500	<10.0	Pass
006+008	mg/kg	10.0	500	<10.0	Pass
010+011	mg/kg	10.0	500	<10.0	Pass

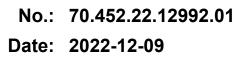
4. Organotin Content Requirement in Annex XVII, Item 20 of the REACH Regulation(EC) No 1907/2006 with its Amendments

Test with reference to ISO 17353:2004, determination by GC-MS.

Parameter	Unit	MDL	Limit	Result(s)		
Farameter				002	003+004	
DBT	mg/kg	0.025	1000	<0.025	<0.025	
ТВТ	mg/kg	0.025	1000	<0.025	<0.025	
DOT	mg/kg	0.025	1000	<0.025	<0.025	
ТсуТ	mg/kg	0.025	1000	<0.025	<0.025	
TPhT	mg/kg	0.025	1000	<0.025	<0.025	
Cone	Conclusion					

Parameter	Unit	MDL	Limit	Result(s)	
Falameter	Unit			005+007+009	006+008
DBT	mg/kg	0.025	1000	<0.025	<0.025
ТВТ	mg/kg	0.025	1000	<0.025	<0.025
DOT	mg/kg	0.025	1000	<0.025	<0.025
ТсуТ	mg/kg	0.025	1000	<0.025	<0.025
TPhT	mg/kg	0.025	1000	<0.025	<0.025
	Conclusion			Pass	Pass

Laboratory: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, Testing Center No. 1999, Du Hui Road, Minhang District, Shanghai Phone: +86 21 60376300 Fax: +86 21 60376350 https://www.tuvsud.com





Parameter	Unit MDL		Limit	Result(s)			
Farameter	Unit	IVIDE	LIIIII	010+011			
DBT	mg/kg	0.025	1000	<0.025			
ТВТ	mg/kg	0.025	1000	<0.025			
DOT	mg/kg	0.025	1000	<0.025			
ТсуТ	mg/kg	0.025	1000	<0.025			
TPhT	mg/kg	0.025	1000	<0.025			
Con	Conclusion						

5. Polycyclic Aromatic Hydrocarbons (PAHs) Content in Annex XVII item 50 of the REACH Regulation (EC) No 1907/2006 with its Amendments

Parameter	CAS No.	Unit	MDL	Limit	Res	sult(s)
Faiailletei	CAS NO.	Unit		LIIIII	002	003+004
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	<0.1	<0.1
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	<0.1	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	<0.1	<0.1
	Conclusion		~~	1	Pass	Pass

Test with reference to AfPS GS 2019:01PAK, determination by GC-MS.

Parameter	CAS No.	Linit	MDL	Limit	Result(s)		
Parameter	CAS NO.	Unit	WIDL	Limit	005+007+009	006+008	
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	<0.1	<0.1	
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	<0.1	<0.1	
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	<0.1	<0.1	
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	<0.1	<0.1	
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	<0.1	<0.1	
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	<0.1	<0.1	
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	<0.1	<0.1	
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	<0.1	<0.1	
·	Conclusio	n	•	·	Pass	Pass	

Laboratory: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, Testing Center No. 1999, Du Hui Road, Minhang District, Shanghai Phone: +86 21 60376300 Fax: +86 21 60376350 https://www.tuvsud.com

No.: 70.452.22.12992.01 Date: 2022-12-09



Parameter	CAS No.	Unit	MDL	Limit	Result(s) 010+011
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	<0.1
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	<0.1
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	<0.1
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	<0.1
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	<0.1
	Conclusio	n			Pass

6. Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs) Test with reference to in house method, determination by GC-MS-NCI.

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					002	003+004
SCCP	85535-84-8	mg/kg	100	1500	<100	<100
	Conclusion			1	Pass	Pass

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
Compound					005+007+009	006+008
SCCP	85535-84-8	mg/kg	100	1500	<100	<100
	Conclusion	1		11	Pass	Pass

Compound	CAS No.	Unit	MDL	Limit	Result(s) 010+011
SCCP	85535-84-8	mg/kg	100	1500	<100
	Conclusior	1	•		Pass



No.: 70.452.22.12992.01

Date: 2022-12-09



7. Phthalates content

Test with reference to EN ISO 14389:2014, determination by GC-MS.

Deveneetev		11		1 :	Result(s)		
Parameter	CAS No.	Unit	MDL	Limit	002	003+004	
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	<0.1	ND	ND	
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	<0.1	ND	ND	
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	<0.1	ND	ND	
Di-isononyl phthalate, (DINP)	28553-12-0, 68515-48-0	%	0.005	<0.1	ND	ND	
Di-isodecyl phthalate, (DIDP)	26761-40-0, 68515-49-1	%	0.005	<0.1	ND	ND	
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	<0.1	ND	ND	
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	<0.1	ND	ND	
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	<0.1	ND	ND	
1,2-Benzenedicarboxylicacid, di- C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4	%	0.005	<0.1	ND	ND	
1,2-Benzenedicarboxylicacid, di- C6-8-branched alkyl esters,C7- rich (DIHP)	71888-89-6	%	0.005	<0.1	ND	ND	
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	%	0.005	<0.1	ND	ND	
Diisopentyl phthalate (DiPP)	605-50-5	%	0.005	<0.1	ND	ND	
n-Pentyl-isopentylphthalate (nPiPP)	776297-69-9	%	0.005	<0.1	ND	ND	
Diamyl phthalate/Dipentyl phthalate (DAP/DPP)	131-18-0	%	0.005	<0.1	ND	ND	
1,2-Benzenedicarboxylic acid,dipentylester branched and linear (DPP)	84777-06-0	%	0.005	<0.1	ND	ND	
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.005	<0.1	ND	ND	
Dicyclohexyl phthalate (DCHP)(84-61-7)	84-61-7	%	0.005	<0.1	ND	ND	
1,2-benzenedicarboxylic acid,di- C6-10-alkyl esters;1,2- benzenedicarboxylic acid,mixed decyl and hexyl and octyl	68515-51-5, 68648-93-1	%	0.005	<0.1	ND	ND	
diesters with≥0.3%of dihexyl phthalate							
Di-iso-hexyl phthalate,DiHxP	71850-09-4	%	0.005	<0.1	ND	ND	
	Conclusion				Pass	Pass	

Phone: +86 21 60376300 Fax: +86 21 60376350 https://www.tuvsud.com

No.: 70.452.22.12992.01 Date: 2022-12-09



Parameter	CAS No.	Unit	MDL	Limit	Result(s)		
Parameter	CAS NO.	Unit	MDL	Limit	005+007+009	006+008	
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	<0.1	ND	ND	
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	<0.1	ND	ND	
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	<0.1	ND	ND	
Di-isononyl phthalate, (DINP)	28553-12-0, 68515-48-0	%	0.005	<0.1	ND	ND	
Di-isodecyl phthalate, (DIDP)	26761-40-0, 68515-49-1	%	0.005	<0.1	ND	ND	
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	<0.1	ND	ND	
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	<0.1	ND	ND	
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	<0.1	ND	ND	
1,2-Benzenedicarboxylicacid, di- C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4	%	0.005	<0.1	ND	ND	
1,2-Benzenedicarboxylicacid, di- C6-8-branched alkyl esters,C7- rich (DIHP)	71888-89-6	%	0.005	<0.1	ND	ND	
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	%	0.005	<0.1	ND	ND	
Diisopentyl phthalate (DiPP)	605-50-5	%	0.005	<0.1	ND	ND	
n-Pentyl-isopentylphthalate (nPiPP)	776297-69-9	%	0.005	<0.1	ND	ND	
Diamyl phthalate/Dipentyl phthalate (DAP/DPP)	131-18-0	%	0.005	<0.1	ND	ND	
1,2-Benzenedicarboxylic acid,dipentylester branched and linear (DPP)	84777-06-0	%	0.005	<0.1	ND	ND	
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.005	<0.1	ND	ND	
Dicyclohexyl phthalate (DCHP)(84-61-7)	84-61-7	%	0.005	<0.1	ND	ND	
1,2-benzenedicarboxylic acid,di- C6-10-alkyl esters;1,2- benzenedicarboxylic acid,mixed decyl and hexyl and octyl diesters with≥0.3%of dihexyl phthalate	68515-51-5, 68648-93-1	%	0.005	<0.1	ND	ND	
Di-iso-hexyl phthalate,DiHxP	71850-09-4	%	0.005	<0.1	ND	ND	
	Conclusion		1	1	Pass	Pass	

Phone: +86 21 60376300 Fax: +86 21 60376350 https://www.tuvsud.com Regd. Office: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, TÜV SÜD Group Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

Page 13 of 28

No.: 70.452.22.12992.01 Date: 2022-12-09



Parameter	CAS No.	Unit	MDL	Limit	Result(s) 010+011
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	<0.1	ND
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	<0.1	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	<0.1	ND
Di-isononyl phthalate, (DINP)	28553-12-0, 68515-48-0	%	0.005	<0.1	ND
Di-isodecyl phthalate, (DIDP)	26761-40-0, 68515-49-1	%	0.005	<0.1	ND
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	<0.1	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	<0.1	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	<0.1	ND
1,2-Benzenedicarboxylicacid, di- C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4	%	0.005	<0.1	ND
1,2-Benzenedicarboxylicacid, di- C6-8-branched alkyl esters,C7- rich (DIHP)	71888-89-6	%	0.005	<0.1	ND
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	%	0.005	<0.1	ND
Diisopentyl phthalate (DiPP)	605-50-5	%	0.005	<0.1	ND
n-Pentyl-isopentylphthalate (nPiPP)	776297-69-9	%	0.005	<0.1	ND
Diamyl phthalate/Dipentyl phthalate (DAP/DPP)	131-18-0	%	0.005	<0.1	ND
1,2-Benzenedicarboxylic acid,dipentylester branched and linear (DPP)	84777-06-0	%	0.005	<0.1	ND
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.005	<0.1	ND
Dicyclohexyl phthalate (DCHP)(84-61-7)	84-61-7	%	0.005	<0.1	ND
1,2-benzenedicarboxylic acid,di- C6-10-alkyl esters;1,2- benzenedicarboxylic acid,mixed decyl and hexyl and octyl diesters with≥0.3%of dihexyl phthalate	68515-51-5, 68648-93-1	%	0.005	<0.1	ND
Di-iso-hexyl phthalate,DiHxP	71850-09-4	%	0.005	<0.1	ND
	Conclusion		1		Pass

Remark: Limit was according to client's requirement

Laboratory: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, Testing Center No. 1999, Du Hui Road, Minhang District, Shanghai Phone: +86 21 60376300 Fax: +86 21 60376350 https://www.tuvsud.com Regd. Office: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, TÜV SÜD Group Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

Page 14 of 28



Date: 2022-12-09

8. Screening of 224 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No.1907/2006 (REACH)

Screening of 10 Substances of Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No 1907/2006 concerning the REACH.

Test with reference to in house method, determination by ICP, UV-VIS, GC-MS and LC-MS.

Item No.	. Tested Items	CAS No.	MDL (%)	Concentration (%) 002+003+004	Classification
-	All tested SVHC in candidate list	-	0.010	ND	_
1	Resorcinol	108-46-3	0.010	ND	Endocrine disrupting properties (Article 57(f) - human health)
2	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6- tribromobenzene] (BTBPE)	37853-59-1	0.010	ND	vPvB (Article 57e)
3	2,2',6,6'-tetrabromo-4,4'- isopropylidenediphenol (TBBPA)	79-94-7	0.010	ND	Carcinogenic (Article 57a
4	4,4'-sulphonyldiphenol (BPS)	80-09-1	0.010	ND	Toxic for reproduction (Arti 57c); Endocrine disruptin properties (Article 57(f) – environment); Endocrine disrupting properties (Artic 57(f) – human health)
5	Barium diboron tetraoxide	13701-59-2	0.010	ND	Toxic for reproduction (Arti 57c)
6	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof (TBPH)	_	0.010	ND	vPvB (Article 57e)
7	Isobutyl 4-hydroxybenzoate	4247-02-3	0.010	ND	Endocrine disrupting properties (Article 57(f) - human health)
8	Melamine	108-78-1	0.010	ND	Equivalent level of concer having probable serious effects to human health (Article 57(f) - human healt Equivalent level of concer having probable serious effects to the environmer (Article 57(f) - environmer
9	Perfluoroheptanoic acid (PFHpA) and its salts	-	0.010	ND	Toxic for reproduction (Arti 57c); PBT (Article 57d); vPvB (Article 57e); Equivalent level of concer having probable serious effects to human health (Article 57(f) - human health Equivalent level of concer having probable serious effects to the environmer (Article 57(f) - environmer

Phone: +86 21 60376300 Fax: +86 21 60376350 https://www.tuvsud.com

No.: 70.452.22.12992.01



Date: 2022-12-09

ltem No.	Tested Items	CAS No.	MDL (%)	Concentration (%) 002+003+004	Classification
10	Reaction mass of 2,2,3,3,5,5,6,6- octafluoro-4-(1,1,1,2,3,3,3- heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4- (heptafluoropropyl)morpholine	-	0.010	ND	vPvB (Article 57e)

ltem No.	Tested Items	CAS No.	MDL (%)	Concentration (%) 005+006+007+ 008+009+010+ 011	Classification
-	All tested SVHC in candidate list	-	0.010	ND	-
1	Resorcinol	108-46-3	0.010	ND	Endocrine disrupting properties (Article 57(f) - human health)
2	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6- tribromobenzene] (BTBPE)	37853-59-1	0.010	ND	vPvB (Article 57e)
3	2,2',6,6'-tetrabromo-4,4'- isopropylidenediphenol (TBBPA)	79-94-7	0.010	ND	Carcinogenic (Article 57a)
4	4,4'-sulphonyldiphenol (BPS)	80-09-1	0.010	ND	Toxic for reproduction (Article 57c); Endocrine disrupting properties (Article 57(f) – environment); Endocrine disrupting properties (Article 57(f) – human health)
5	Barium diboron tetraoxide	13701-59-2	0.010	ND	Toxic for reproduction (Article 57c)
6	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof (TBPH)	301	0.010	ND	vPvB (Article 57e)
7	Isobutyl 4-hydroxybenzoate	4247-02-3	0.010	ND	Endocrine disrupting properties (Article 57(f) – human health)
8	Melamine	108-78-1	0.010	ND	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health); Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)

No.: 70.452.22.12992.01



Date: 2022-12-09

ltem No.	Tested Items	CAS No.	MDL (%)	Concentration (%) 005+006+007+ 008+009+010+ 011	Classification
9	Perfluoroheptanoic acid (PFHpA) and its salts	-	0.010	ND	Toxic for reproduction (Article 57c); PBT (Article 57d); vPvB (Article 57e); Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health); Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
10	Reaction mass of 2,2,3,3,5,5,6,6- octafluoro-4-(1,1,1,2,3,3,3- heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4- (heptafluoropropyl)morpholine	-	0.010	ND	vPvB (Article 57e)

Remark:

- 1. The table above only shows detected SVHC, and SVHC that below MDL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2. ** The substances are tested in terms of its respective elements and the test result is based on the calculation of selected elements/marker(s) and to the worst-case scenario. Calculated concentration of boric and arsenic compounds are based on the water extractive boron and arsenic. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
- 3. ## The substances are UVCB(substance of unknown or variable composition, complex reaction products or biological materials), which are identified by it main constituents. Individual concentrations to the constituent of UVCB with an amount of <0.01% were not considered by the calculation of the sum. Calculation is based on the worst-case scenario. Due to the UVCB nature the reported values may be regarded as semi-quantitative.
- 4. # only applicable with \geq 0.1% of Michler's ketone (CAS No. 90-94-8) or Michler's base (CAS No. 101-61-1)
- 5. TGIC is a mixture and also contains β -TGIC. According to ECHA's technical dossier the ratio of β -TGIC to TGIC is around 1 to 10. Therefore β -TGIC is issued based on the above-mentioned ratio.
- 6. The analysis of **224** SVHC and **10** public consultation list are done by currently available test & screening techniques against the SVHC candidate list published by European Chemical Agency (ECHA). Refer to http://echa.europa.eu/chem_data/candidate_list_table_en.asp for details.
- 7. In accordance with Regulation(EC) No 1907/2006, any producer or importer of substances, preparations and articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), if both the following conditions are met:
 - (a) The substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year;(b) The substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
- 8. From 28 October 2008, EU & EEA suppliers whose goods contain substances on the Candidate List in a concentration above 0.1%(w/w) must provide sufficient information to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.

 AppendixI

 Phone: +86 21 60376300
 Regd. Offi

 Fax: +86 21 60376350
 TÜV SÜD

 https://www.tuvsud.com
 Shanghai

. Regd. Office: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, TÜV SÜD Group

Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai Page 17 of 28

No.: 70.452.22.12992.01



Date: 2022-12-09

ltem No.	Tested Items	CAS No.	Classification
1	Benzyl butyl phthalate (BBP)	85-68-7	Toxic for reproduction (article 57 c)
2	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	Toxic for reproduction (article 57 c)
3	Dibutyl phthalate (DBP)	84-74-2	Toxic for reproduction (article 57 c)
4	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	Carcinogenic (article 57 a)
5	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	vPvB (article 57 e)
6	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	PBT and vPvB (articles 57 d and 57 e)
7	Cobalt Dichloride**	7646-79-9	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
8	Hexabromocyclododecane (HBCDD)	25637-99-4/ 3194-55-6	PBT (article 57 d)
9	Sodium dichromate, dihydrate**	7789-12-0/ 10588-01-9	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
10	Anthracene	120-12-7	PBT (article 57 d)
11	Lead hydrogen arsenate**	7784-40-9	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
12	Bis(tributyltin)oxide (TBTO)**	56-35-9	PBT (article 57 d)
13	Diarsenic pentaoxide**	1303-28-2	Carcinogenic (article 57 a)
14	Diarsenic trioxide**	1327-53-3	Carcinogenic (article 57 a)
15	Triethyl arsenate**	15606-95-8	Carcinogenic (article 57 a)
16	2,4-Dinitrotoluene	121-14-2	Carcinogenic (article 57 a)
17	Anthracene oil##	90640-80-5	Carcinogenic, PBT and vPvB (articles 57 a, 57 d and 57 e)
18	Anthracene oil, anthracene paste, distn, lights##	91995-17-4	Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57 d and 57 e)
19	Anthracene oil, anthracene paste, anthracene fraction##	91995-15-2	Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57 d and 57 e)
20	Anthracene oil, anthracene-low##	90640-82-7	Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57 d and 57 e)
21	Anthracene oil, anthracene paste##	90640-81-6	Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57d and 57 e)
22	Lead chromate**	7758-97-6	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
23	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)**	12656-85-8	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
24	Lead sulfochromate yellow (C.I. Pigment Yellow 34)**	1344-37-2	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
25	Diisobutyl phthalate (DIBP)	84-69-5	Toxic for reproduction (article 57c)
26	Tris(2-chloroethyl)phosphate	115-96-8	Toxic for reproduction (article 57c)
27	Pitch, coal tar, high temp.##	65996-93-2	Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)
28	Acrylamide	79-06-1	Carcinogenic and mutagenic (articles 57 a and 57 b)
29	Trichloroethylene	79-01-6	Carcinogenic (article 57 a)
30	Boric acid**	10043-35-3/ 11113-50-1	Toxic for reproduction (article 57 c)
31	Disodium tetraborate, anhydrous**	1330-43-4/ 12179-04-3	Toxic for reproduction (article 57 c)

Laboratory: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, Testing Center No. 1999, Du Hui Road, Minhang District, Shanghai Phone: +86 21 60376300 Fax: +86 21 60376350 https://www.tuvsud.com

Regd. Office: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, TÜV SÜD Group Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

Page 18 of 28

No.: 70.452.22.12992.01



Date: 2022-12-09

ltem No.	Tested Items	CAS No.	Classification
32	Tetraboron disodium heptaoxide, hydrate(calculate as decahydrate)**	12267-73-1	Toxic for reproduction (article 57 c)
33	Sodium chromate**	7775-11-3	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
34	Potassium chromate**	7789-00-6	Carcinogenic and mutagenic (articles 57 a and 57 b)
35	Ammonium dichromate**	7789-09-5	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
36	Potassium dichromate**	7778-50-9	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
37	Cobalt(II) sulphate**	10124-43-3	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
38	Cobalt(II) dinitrate**	10141-05-6	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
39	Cobalt(II) carbonate**	513-79-1	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
40	Cobalt(II) diacetate **	71-48-7	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
41	2-Methoxyethanol	109-86-4	Toxic for reproduction (article 57c)
42	2-Ethoxyethanol	110-80-5	Toxic for reproduction (article 57c)
43	Chromium trioxide**	1333-82-0	Carcinogenic and mutagenic (articles 57 a and 57 b)
44	Acids generated from chromium trioxide and their oligomers: a. Chromic acid** b. Dichromic acid ** c. Oligomers of chromic acid and dichromic acid **	7738-94-5/ 13530-68-2	Carcinogenic (article 57a)
45	2-Ethoxyethyl acetate (2-EEA)	111-15-9	Toxic for reproduction (article 57c)
46	Strontium chromate**	7789-06-2	Carcinogenic (article 57a)
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	Toxic for reproduction (article 57c)
48	Hydrazine	7803-57-8 302-01-2	Carcinogenic (article 57a)
49	1-Methyl-2-pyrrolidone	872-50-4	Toxic for reproduction (article 57c)
50	1,2,3-Trichloropropane	96-18-4	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	Toxic for reproduction (article 57c)
52	1, 2-Dichloroethane	107-06-2	Carcinogenic (article 57 a)
53	2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	Carcinogenic (article 57 a)
54	2-Methoxyaniline, o-Anisidine	90-04-0	Carcinogenic (article 57 a)
55	4-tert-Octylphenol	140-66-9	Equivalent level of concern having probable serious effects to the environment (article 57 f)

No.: 70.452.22.12992.01



Date: 2022-12-09

ltem No.	Tested Items	CAS No.	Classification
56	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm) c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight **	-	Carcinogenic (article 57a)
57	Arsenic acid **	7778-39-4	Carcinogenic (article 57 a)
58	Bis(2-methoxyethyl) ether	111-96-6	Toxic for reproduction (article 57 c
59	Bis(2-methoxyethyl) phthalate	117-82-8	Toxic for reproduction (article 57 of
60	Calcium arsenate**	7778-44-1	Carcinogenic (article 57 a)
61	Dichromium tris(chromate) **	24613-89-6	Carcinogenic (article 57 a)
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	Carcinogenic (article 57 a)
63	Lead diazide**	13424-46-9	Toxic for reproduction (article 57
64	Lead dipicrate**	6477-64-1	Toxic for reproduction (article 57
65	Lead styphnate **	15245-44-0	Toxic for reproduction (article 57
66	N,N-dimethylacetamide (DMAC)	127-19-5	Toxic for reproduction (article 57
67	Pentazinc chromate octahydroxide**	49663-84-5	Carcinogenic (article 57 a)
68	Phenolphthalein	77-09-8	Carcinogenic (article 57 a)
69	Potassium hydroxyoctaoxodizincatedichromate**	11103-86-9	Carcinogenic (article 57 a)
70	Trilead diarsenate**	3687-31-8	Carcinogenic and toxic for reproduction (articles 57 a and 57
71	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 , and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm). c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight **		Carcinogenic (article 57 a)
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	Toxic for reproduction (Article 57 of
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	Toxic for reproduction (Article 57
74	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol #	561-41-1	Carcinogenic (Article 57a)
75	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	Carcinogenic (Article 57 a)
76	4-[4,4'-bis(dimethylamino)benzhydrylidene] cyclohexa- 2,5-dien-1-ylidene]dimethylammo- nium chloride(C.I. Basic Violet 3) [#]	548-62-9	Carcinogenic (Article 57a)
77	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa- 2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [#]	2580-56-5	Carcinogenic (Article 57a)

Laboratory: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, Testing Center No. 1999, Du Hui Road, Minhang District, Shanghai

Fax: +86 21 60376350 https://www.tuvsud.com

No.: 70.452.22.12992.01



Date: 2022-12-09

Item No.	Tested Items	CAS No.	Classification
78	Diboron trioxide	1303-86-2	Toxic for reproduction (Article 57 c)
79	Lead(II) bis(methanesulfonate)**	17570-76-2	Toxic for reproduction (Article 57 c)
80	Formamide	75-12-7	Toxic for reproduction (Article 57 c)
81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	Carcinogenic (Article 57a)
82	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6- trione (TGIC)	2451-62-9	Mutagenic (Article 57b)
83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)#	6786-83-0	Carcinogenic (Article 57a)
84	β-TGIC(1,3,5-tris[(2S and2R)-2,3-epoxypropyl] 1,3,5- triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	Mutagenic (Article 57b)
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	PBT (Article 57 d); vPvB (Article 57 e)
86	Pentacosafluorotridecanoic acid	72629-94-8	PBT (Article 57 d); vPvB (Article 57 e)
87	Tricosafluorododecanoic acid	307-55-1	vPvB (Article 57 e)
88	Henicosafluoroundecanoic acid	2058-94-8	vPvB (Article 57 e)
89	Heptacosafluorotetradecanoic acid	376-06-7	vPvB (Article 57 e)
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated-covering well-defined substances and UVCB substances, polymers and homologue		Equivalent level of concern – probable serious effects on the environment (Article 57 f)
91	4-Nonylphenol, branched and linear -substances with a linear and/or branched alkyl chain with a 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		Equivalent level of concern – probable serious effects on the environment (Article 57 f)
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	Equivalent level of concern – probable serious effects on human health (Article 57 f)
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7	Equivalent level of concern – probable serious effects on human health (Article 57 f)
94	Hexahydromethylphathalic anhydride, Hexahydro-4- methylphathalic anhydride, Hexahydro-1- methylphathalic anhydride, Hexahydro-3- methylphathalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9	Equivalent level of concern – probable serious effects on human health (Article 57 f)
95	Methoxy acetic acid	625-45-6	Toxic for reproduction (Article 57 c); equivalent level of concern - probable serious effects on human health and the environment (Article 57 f)
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	Toxic for reproduction (Article 57 c)
97	Diisopentylphthalate (DIPP)	605-50-5	Toxic for reproduction (Article 57 c)
98	N-pentyl-isopentylphthalate		Toxic for reproduction (Article 57 c)
99	1,2-Diethoxyethane	629-14-1	Toxic for reproduction (Article 57 c)
100	N,N-dimethylformamide	68-12-2	Toxic for reproduction (Article 57 c)
101	Dibutyltin dichloride (DBT)	683-18-1	Toxic for reproduction (Article 57 c)
102	Acetic acid, lead salt, basic**	51404-69-4	Toxic for reproduction (Article 57 c)
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide)**	1319-46-6	Toxic for reproduction (Article 57 c)
104	Lead oxide sulfate (basic lead sulfate)**	12036-76-9	Toxic for reproduction (Article 57 c)

Laboratory: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, Testing Center No. 1999, Du Hui Road, Minhang District, Shanghai

Phone: +86 21 60376300 Fax: +86 21 60376350 https://www.tuvsud.com

Regd. Office: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, TÜV SÜD Group Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

Page 21 of 28

No.: 70.452.22.12992.01



Date: 2022-12-09

Item No.	Tested Items	CAS No.	Classification
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)**	69011-06-9	Toxic for reproduction (Article 57 c)
106	Dioxobis(stearato)trilead**	12578-12-0	Toxic for reproduction (Article 57 c)
107	Fatty acids, C16-18, lead salts**	91031-62-8	Toxic for reproduction (Article 57 c)
108	Lead bis(tetrafluoroborate)**	13814-96-5	Toxic for reproduction (Article 57 c)
109	Lead cynamidate**	20837-86-9	Toxic for reproduction (Article 57 c)
110	Lead dinitrate**	10099-74-8	Toxic for reproduction (Article 57 c)
111	Lead oxide (lead monoxide)**	1317-36-8	Toxic for reproduction (Article 57 c)
112	Lead tetroxide (orange lead)**	1314-41-6	Toxic for reproduction (Article 57 c)
113	Lead titanium trioxide**	12060-00-3	Toxic for reproduction (Article 57 c)
114	Lead Titanium Zirconium Oxide**	12626-81-2	Toxic for reproduction (Article 57 c)
115	Pentalead tetraoxide sulphate**	12065-90-6	Toxic for reproduction (Article 57 c)
116	Pyrochlore,antimony lead yellow**	8012-00-8	Toxic for reproduction (Article 57 c)
117	Silicic acid, barium salt, lead-doped**	68784-75-8	Toxic for reproduction (Article 57 c)
118	Silicic acid, lead salt**	11120-22-2	Toxic for reproduction (Article 57 c)
119	Sulfurous acid, lead salt, dibasic**	62229-08-7	Toxic for reproduction (Article 57 c)
120	Tetraethyllead**	78-00-2	Toxic for reproduction (Article 57 c)
121	Tetralead trioxide sulphate**	12202-17-4	Toxic for reproduction (Article 57 c)
122	Trilead dioxide phosphonate**	12141-20-7	Toxic for reproduction (Article 57 c)
123	Furan	110-00-9	Carcinogenic (Article 57a)
			Carcinogenic (Article 57 a);
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	Mutagenic (Article 57 b)
125	Diethyl sulphate	64-67-5	Carcinogenic (Article 57 a); Mutagenic (Article 57 b)
126	Dimethyl sulphate	77-78-1	Carcinogenic (Article 57 a)
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	Toxic for reproduction (Article 57 c)
128	Dinoseb	88-85-7	Toxic for reproduction (Article 57 c)
129	4,4'-methylenedi-o-toluidine	838-88-0	Carcinogenic (Article 57 a)
130	4,4'-oxydianiline and its salts	101-80-4	Carcinogenic (Article 57 a); Mutagenic (Article 57 b)
131	4-Aminoazobenzene	60-09-3	Carcinogenic (Article 57 a)
132	4-methyl-m-phenylenediamine	95-80-7	Carcinogenic (Article 57 a)
133	6-methoxy-m-toluidine	120-71-8	Carcinogenic (Article 57 a)
134	Biphenyl-4-ylamine	92-67-1	Carcinogenic (Article 57 a)
135	o-aminoazotoluene	97-56-3	Carcinogenic (Article 57 a)
136	o-Toluidine	95-53-4	Carcinogenic (Article 57 a)
137	N-methylacetamide	79-16-3	Toxic for reproduction (Article 57 c)
138	1-bromopropane; n-propyl bromide	106-94-5	Toxic for reproduction (Article 57 c)
139	Cadmium**	7440-43-9	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
140	Cadmium oxide**	1306-19-0	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
141	Dipentyl phthalate (DPP)	131-18-0	Toxic for reproduction (Article 57 c)
142	4-Nonylphenol, branched and linear, ethoxylated [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]	-	Equivalent level of concern having probable serious effects to the environment (due to the endocrine disrupting properties of the degradation products) (Article 57 f)



No.: 70.452.22.12992.01

Test Report

Date: 2022-12-09

ltem No.	Tested Items	CAS No.	Classification
143	Ammonium pentadecafluorooctanoate	3825-26-1	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
145	Cadmium sulphide**	1306-23-6	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4- aminonaphthalene-1-sulphonate)(C.I.Direct Red 28)	573-58-0	Carcinogenic (Article 57a)
147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'- biphenyl]-4-yl]azo]-5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonate(C.I.Direct Black 38)	1937-37-7	Carcinogenic (Article 57a)
148	Dihexyl phthalate	84-75-3	Toxic for reproduction (Article 57 c)
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	Toxic for reproduction (Article 57 c)
150	Lead di(acetate) **	301-04-2	Toxic for reproduction (Article 57 c)
151	Trixylyl phosphate	25155-23-1	Toxic for reproduction (Article 57 c)
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	Toxic for reproduction (Article 57 c)
153	Cadmium chloride**	10108-64-2	Carcinogenic (Article 57a); Mutagenic (Article 57(b); Toxic for Reproduction (Article 57(c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
154	Sodium perborate; perboric acid, sodium salt	-	Toxic for reproduction (Article 57 c)
155	Sodium peroxometaborate	7632-04-4	Toxic for reproduction (Article 57 c)
156	Cadmium fluoride**	7790-79-6	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
			Carcinogenic (Article 57 a); Mutagenic (Article 57 b);
157	Cadmium sulphate**	10124-36-4; 31119-53-6	Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	PBT (Article 57 d); vPvB (Article 57 e)
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	PBT (Article 57 d); vPvB (Article 57 e)
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia- 4-stannatetradecanoate (DOTE)	15571-58-1	Toxic for reproduction (Article 57 c)
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)	-	Toxic for reproduction (Article 57 c)



No.: 70.452.22.12992.01



Date: 2022-12-09

ltem No.	Tested Items	CAS No.	Classification
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)	68515-51-5, 68648-93-1 (271-094-0, 272-013-1)	Toxic for reproduction (Article 57 c)
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5- methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6- dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	vPvB (Article 57 e)
164	1,3-propanesultone	1120-71-4	Carcinogenic (Article 57 a)
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	vPvB (Article 57 e)
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec- butyl)phenol (UV-350)	36437-37-3	vPvB (Article 57 e)
167	Nitrobenzene	98-95-3	Toxic for reproduction (Article 57 c)
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9- heptadecafluorononanoic acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4	Toxic for reproduction (Article 57 c);PBT (Article 57 d)
169	Benzo[a]pyrene	50-32-8	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e)
170	4,4'-isopropylidenediphenol (Bisphenol A, BPA)	80-05-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
171	Nonadecaflurodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2, 3830-45-3, 3108-42-7	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
172	p-(1,1-dimethylpropyl)phenol (pentylphenol, PTAP)	80-46-6	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
173	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB-and well-defined substances which include any of the individual isomers or a combination thereof]		Equivalent level of concern having probable serious effects to the environment (Article 57 f)
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	355-46-4	vPvB (Article 57e)
175	Benz[a]anthracene	56-55-3	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
176	Cadmium carbonate**	513-78-0	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)

Phone: +86 21 60376300 Fax: +86 21 60376350 https://www.tuvsud.com Regd. Office: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, TÜV SÜD Group Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

Page 24 of 28

No.: 70.452.22.12992.01



Date: 2022-12-09

Item No.	Tested Items	CAS No.	Classification
177	Cadmium hydroxide**	21041-95-2	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
178	Cadmium nitrate**	10325-94-7	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
179	Chrysene	218-01-9	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
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"TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	vPvB (Article 57e)
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]	<u> </u>	Endocrine disrupting properties (Article 57(f) - environment)
182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)	552-30-7	Respiratory sensitising properties (Article 57(f)) – human health)
183	Dicyclohexyl phthalate (DCHP)	84-61-7	Toxic for reproduction (Article 57(c)); endocrine disrupting properties (Article 57(f) - human health)
184	Octamethylcyclotetrasiloxane (D4)	556-67-2	PBT (Article 57d) vPvB (Article 57e)
185	Decamethylcyclopentasiloxane (D5)	541-02-6	PBT (Article 57d) vPvB (Article 57e)
186	Dodecamethylcyclohexasiloxane (D6)	540-97-6	PBT (Article 57d) vPvB (Article 57e)
187	Lead	7439-92-1	Toxic for reproduction (Article 57c)
188	Disodium octaborate**	12008-41-2	Toxic for reproduction (Article 57c)
189	Benzo[ghi]perylene	191-24-2	PBT (Article 57d) vPvB (Article 57e)
190	Terphenyl hydrogenated	61788-32-7	vPvB (Article 57e)
191	Ethylenediamine (EDA)	107-15-3	Respiratory sensitising properties (Article 57(f) - human health)
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	Toxic for reproduction (Article 57c)
193	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one (3- benzylidene camphor)	15087-24-8	Endocrine disrupting properties (Article 57(f) - environment)
194	Benzo[k]fluoranthene	207-08-9	Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)
195	Fluoranthene	206-44-0	PBT (Article 57d); vPvB (Article 57e)
196	Phenanthrene	85-01-8	vPvB (Article 57e)

Phone: +86 21 60376300 Fax: +86 21 60376350 https://www.tuvsud.com

Greater China

Test Report

No.: 70.452.22.12992.01

Date: 2022-12-09

ltem No.	Tested Items	CAS No.	Classification
197	Pyrene	129-00-0	PBT (Article 57d); vPvB (Article 57e)
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health)
199	2-methoxyethyl acetate	110-49-6	Toxic for reproduction (Article 57 (c))
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	Endocrine disrupting properties (Article 57(f) – environment)
201	4-tert-butylphenol (PTBP)	98-54-4	Endocrine disrupting properties (Article 57(f) – environment)
202		71850-09-4	Toxic for reproduction (Article 57c)
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	Toxic for reproduction (Article 57c)
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1- one	71868-10-5	Toxic for reproduction (Article 57c)
205	Perfluorobutane sulfonic acid (PFBS) and its salts	·	Equivalent level of concern having probable serious effects on the environment (Article 57f) Equivalent level of concern having probable serious effects on human health (Article 57f)
206	1-vinylimidazole	1072-63-5	Toxic for reproduction (Article 57c)
207	2-methylimidazole	693-98-1	Toxic for reproduction (Article 57c)
208	Butyl 4-hydroxybenzoate	94-26-8	Endocrine disrupting properties (Article 57(f) – human health)
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	Toxic for reproduction (Article 57c)
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	Toxic for reproduction (Article 57c)
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety		Toxic for reproduction (Article 57c)
212	1,4-dioxane	123-91-1	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects on the environment (Article 57f) Equivalent level of concern having probable serious effects on human health (Article 57f)
213	2,2-bis(bromomethyl)propane1,3-diol (BMP), 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo- 2,2-bis(bromomethyl)-1-propanol (TBNPA), 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0, 36483-57-5/ 1522-92-5, 96- 13-9	Carcinogenic (Article 57a)
214	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	-	Toxic for reproduction (Article 57c)

Phone: +86 21 60376300 Fax: +86 21 60376350 https://www.tuvsud.com Regd. Office: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, TÜV SÜD Group Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

Page 26 of 28



No.: 70.452.22.12992.01

Date: 2022-12-09

ltem No.	Tested Items	CAS No.	Classification
215	4,4'-(1-methylpropylidene) bisphenol; (bisphenol B)	77-40-7	Endocrine disrupting properties (Article 57(f) - environment AND human health
216	Glutaral	111-30-8	Respiratory sensitising properties (Article 57(f) - human health)
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	PBT (Article 57d) vPvB (Article 57e)
218	Orthoboric acid, sodium salt	13840-56-7	Toxic for reproduction (Article 57c)
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) – human health) Endocrine disrupting properties (Article 57(f) – environment)
220	(±)-1,7,7-trimethyl-3-[(4- methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof ((4-MBC)		Endocrine disrupting properties (Article 57(f) - human health)
221	Endocrine disrupting properties (Article 57(f) - human health)	119-47-1	Toxic for reproduction (Article 57c)
222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2- ethylhexyl) phosphorodithioate	255881-94-8	PBT (Article 57 d)
223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	Toxic for reproduction (Article 57c)
224	N-(hydroxymethyl)acrylamide	924-42-5	Carcinogenic (Article 57a) Mutagenic (Article 57b)

Item No.	Tested Items	CAS No.	Classification
1	Resorcinol	108-46-3	Endocrine disrupting properties (Article 57(f) - human health)
2	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene] (BTBPE)	37853-59-1	vPvB (Article 57e)
3	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBPA)	79-94-7	Carcinogenic (Article 57a)
4	4,4'-sulphonyldiphenol (BPS)	80-09-1	Toxic for reproduction (Article 57c); Endocrine disrupting properties (Article 57(f) – environment); Endocrine disrupting properties (Article 57(f) – human health)
5	Barium diboron tetraoxide	13701-59-2	Toxic for reproduction (Article 57c)
6	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof (TBPH)	-	vPvB (Article 57e)
7	Isobutyl 4-hydroxybenzoate	4247-02-3	Endocrine disrupting properties (Article 57(f) – human health)

No.: 70.452.22.12992.01 Date: 2022-12-09



8	Melamine	108-78-1	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health); Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
9	Perfluoroheptanoic acid (PFHpA) and its salts	-	Toxic for reproduction (Article 57c); PBT (Article 57d); vPvB (Article 57e); Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health); Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
10	Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4- (1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4- (heptafluoropropyl)morpholine		vPvB (Article 57e)

- End of Test Report -

Laboratory: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, Testing Center No. 1999, Du Hui Road, Minhang District, Shanghai Phone: +86 21 60376300 Fax: +86 21 60376350 https://www.tuvsud.com Regd. Office: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, TÜV SÜD Group Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

Page 28 of 28