

No. : GZIN151201912CCM Date : Jan. 15, 2016 Page: 1 of 28

CLIENT NAME: FOSHAN CHANCHENG YUFENG PLASTIC HARDWARE FACTORY ADDRESS: LUOGE WEIZAI INDUSTRY AREA, NANZHUANG, CHANCHENG DISTRICT, FOSHAN CITY, GUANGDONG, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name	:	PVC INTERLOCKING TILES
Spec.	:	500mm×500mm×7mm
SGS Ref. No.	:	GZIN151201912CCM
Buyer	:	DISSET ODISEO S.L.
Manufacturer	:	FOSHAN CHANCHENG YUFENG PLASTIC HARDWARE FACTORY
Sample information	:	Product or Lot No.: YF-201512-1
Test Performed	:	Selected test(s) as requested by applicant
Date of Receipt	:	Dec. 23, 2015
Test Period	:	Dec. 23, 2015 to Jan. 08, 2016
Test result(s)	:	Please refer to the following page(s)
		********To be continued*******

Signed for and on behalf of SGS-CSTC Standards Technical Services Co.,Ltd Guangzhou Branch

handler

Chandler Wu Authorized signatory

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Summary of test results

NO.	Test items	Test methods	Test results	Conclusion
		EN 649:2011,	Ave. thickness: 7.13mm,	
1	Overall thickness	EN 685:2007 and	Max. thickness: 7.16mm,	Pass
		EN 428:1993	Min. thickness: 7.06mm	
		EN 649:2011, EN		
2	Thickness of wear layer	685:2007 and		NPD
		EN 429:1993		
		EN 649:2011,	No disturbance to the surface	
3	Effect of a castor chair	EN 685:2007 and		Pass
		EN 425:2002		
		EN 649:2011, EN		
4	Seam strength	685:2007 and EN		NPD
		684:1996		
5	Slip resistance	EN 13893:2002	0.41	
6	Wear resistance	EN 660-2:1999+ A1:2003 and EN 649:2011	Fv=2.3mm ³ /100revolutions	Wear group: P
	Dimensional stability		Variations of dimension:	
7	and curling after	EN 434:1994 and EN 649	-0.12%	Pass
	exposure to heat		Curling: 0.05mm	
8	Resistance to staining	EN ISO 26987:2012	See test item 6	
9	Shore Hardness	ISO 868:2003	A/15:90	
10	Slip resistance	DIN 51130:2014-02	Critical angle of inclination:	R9
	(oii-wet ramp test)		0.2	



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NO.	Test items	Test methods	Test results	Conclusion
11	Colour Fastness To Light	EN ISO 105-B02:2014	Grade (Blue wool standard): 6	
12	Fire test	EN 13501- 1:2007+A1:2009(E)	Classification: B _{fl} -s1	
13	SVHC	SGS In-House method	See test item 11	Warning



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Test Information:

Sample description: See photo

Test item 1: Overall thickness

Test method: EN 649:2011, EN 685:2007 and EN 428:1993

Test condition:

Nominal thickness value: 7.1mm

Condition the test pieces at a temperature of (23±2) °C and relative humidity (50±5)% for a minimum of 24 h.

Test result:

Ave. thickness: 7.13mm, Max. thickness: 7.16mm, Min. thickness: 7.06mm

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EN 649:2011 requirement:

Class	Symbol	Symbol Level of use		Overall thickness ^a , nominal value, mm		
01000	Cymbol		Т	Р	М	F
34		Commercial very heavy	2.0	2.0	2.0	25
43		Light industrial heavy	2.0	2.0	2.0	2.5
^a The average value shall be the nominal value with a tolerance of +13 %~-10 % but not more than 0,1mm.						
Individual values shall not vary more than 0,05 mm or 15 % below the average, whichever is greater. Where						
this requirement is not met by only one individual value, however, the test shall be repeated once more.						

Conclusion: Pass



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Test item 2: Thickness of wear layer

Test method: EN 649:2011, EN 685:2007 and EN 429:1993

Test result:

NPD, only for heterogeneous sample to be tested

EN 649:2011 requirement:

Class	Symbol	Level of use	Thickness of wear layer ^a , nominal value, mm			value, mm
Chabb	Cymbol	2010: 01 000	Т	Р	М	F
34		Commercial very heavy	0.70	1.00	1 50	2 00
43		Light industrial heavy	0.70	1.00	1.00	2.00
^a The average value shall be the nominal value with a tolerance of +13 %~-10 % but not more than 0,1mm.						
Individual values shall not vary more than 0,05 mm or 15 % below the average, whichever is greater. Where						
this requirement is not met by only one individual value, however, the test shall be repeated once more.						

Test item 3: Effect of a castor chair

Test method: EN 649:2011, EN 685:2007 and EN 425:2002

Test condition:

Inspect the surface of the castors, and if necessary, clean them with a cotton pad impregnated with denatured ethanol, and dry. Pre-clean the test piece with a vacuum cleaner.

Fix the base for the test piece on the circular plate, and lower the triangular platform to allow the castors to come into contact with the test piece. Preset the counter for 25000 revolutions of the plate and set the apparatus in motion with the suction nozzle being operated continuously.

At the end of the test, examine the test piece for appearance change from a distance of approximately 800 mm at an approximate angle of 45° and from all directions by slowly rotating the viewing table.

Record any damage caused by detachment of layers, opening of joints, or crazing. Ignore any flattening or change in appearance, e.g. change in gloss.

Test result: No disturbance to the surface other than slight change in appearance and no delamination.



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EN 649:2011 requirement:

Class	Symbol	Level of use	Effect of a castor chair
34		Commercial very heavy	If tested for verification, no disturbance to the surface
43		Light industrial heavy	delamination shall occur

Conclusion: Pass

Test item 4: Seam strength

Test method: EN 649:2011, EN 685:2007 and EN 684:1996

Test result:

NPD, only for welded sample to be tested

EN 649:2011 requirement:

Class	Symbol	Level of use	Seam strength, N/50mm
34		Commercial very heavy	When welded in accordance with the manufacturers instructions:
43		Light industrial heavy	average value ≥ 240 N/50mm individual values ≥ 180 N/50mm

Test item 5: Slip resistance

Test method: EN 13893:2002

Test condition:

Specimen thickness: 7.13mm

Testing speed: 0.26m/s

Test result: 0.41



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Test item 6: Wear resistance

Test method: EN 660-2:1999+ A1:2003 and EN 649:2011

Test condition: Weigh the specimens to an accuracy of ±0.1mg after conditioning. Load each wheel with a weight of (1±0.01) kg. The flow of abrasive is (21±3)g/min. Abrade one specimen during 5000 revolutions, with a break for weighing after each cycle of 1000 revolutions, and then test the two remaining specimens. If, however, the first specimen is abraded through before 5000 revolutions, discard it and test the two remaining specimen in cycles of 200 revolutions stopping the test after 2000 revolutions or when the specimen is abraded through.

> Calculate the average mass loss. Fm, in milligrams per 100 revolutions for each specimen as follows:

$$F_m = \frac{F_{tot}}{n} \times 100$$

Calculate the loss of volume for each specimen for 100 revolutions as follows:

$$F_V = \frac{F_m}{\rho}$$

EN 649:2011 requirement:

Characteristic	Requirements for wear group						
	Т	Р	М	F			
Volume loss Fv(mm ³)/100revolutions	Fv≤2.0	2.0 <fv≤4.0< td=""><td>4.0<fv≤7.5< td=""><td>7.5<fv≤15.0< td=""></fv≤15.0<></td></fv≤7.5<></td></fv≤4.0<>	4.0 <fv≤7.5< td=""><td>7.5<fv≤15.0< td=""></fv≤15.0<></td></fv≤7.5<>	7.5 <fv≤15.0< td=""></fv≤15.0<>			

Test result:

Test result	Wear group
Fv=2.3mm ³ /100revolutions	Р

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Test item 7: Dimensional stability and curling after exposure to heat

Test method: EN 434:1994 and EN 649:2011

Test condition:

Store the test pieces for 360+15 min in the oven, which had previously been stabilized at (80±2) °C. Remove the metal plates bearing the test pieces from the oven. Allow these to cool and recondition at a temperature of (23±2) ℃ and relative humidity (50±5)% for a further 24 h, unless otherwise specified for the product.

Test result:

Variations of dimension: -0.12% Curling: 0.05mm

EN 649:2011 requirement:

Sheets and tiles (intended for welding):

The Variations of dimension should be $\leq 0.4\%$, The Curling should be $\leq 8mm$

Tiles (intended for dry-joint laying):

The Variations of dimension should be ≤0.25%, The Curling should be ≤2mm

Conclusion: Pass

Note: 1. Dimensional stability, %= (The length after test -Initial length) / Initial length×100.

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2. Sample direction could not be distinguished.



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Test item 8: Resistance to staining

Test method: EN ISO 26987:2012

Test condition:

The main duration of contact shall be 2h. If a stain appears on the test piece after 2h, a new test shall be conducted for a period of 30 min. Examine the residual staining.

Test result:

No.	Stain agent	Contact time	Result	Contact time	Result
1	Acetone	2h	0		
2	Coffee (120g coffee per litre of water)	2h	0		
3	Sodium hydroxide 25% solution	2h	0		
4	Hydrogen peroxide 30% solution	2h	0		
5	Shoe Polish	2h	0		

Expression of results:

Index	Effect of the test after cleaning / abrasion			
0	Not affected			
1	slight			
2	Moderate			
3	Severe			

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Test Item 9: Shore Hardness

Test method: ISO 868:2003

Test condition:

Specimen thickness: 5.64 mm

Test result:

Shore Hardness: A/15:90

Note: A/15:90- "A": type of durometer, "15": read time(s), "90": hardness value.

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Test item 10: Slip resistance (oil-wet ramp test)

Test method: DIN 51130:2014-02 Testing of floor coverings - Determination of the anti-slip property -

Workrooms and fields of activities with slip danger, walking method - Ramp test

Test condition:

Two samples 500mm × 500mm form a testing surface of 1000mm × 500mm, see the photos

Test Result:

Testing surface: see the photos

Test item(s)	Test result(s)	Classification	
Slip resistance (oil-wet ramp test)	Critical angle of inclination: 8.2°	R9	

Appendix A: Classification of oil-wet ramp test:

Classification	Angle (degrees)
R9	6 <i>°</i> ≤X≤10°
R10	10° <x≤19°< td=""></x≤19°<>
R11	19° <x≤27°< td=""></x≤27°<>
R12	27° <x≤35°< td=""></x≤35°<>
R13	>35°



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Test Item 11: Colour Fastness To Light Test method: EN ISO 105-B02:2014 Test condition: Use Xenon arc lamp, exposure cycle A1, no flip-flop mode was used Test result: After standard 6 grade blue wool

Grade (Blue wool standard): 6

Test item 12: Fire test

Test Conducted:

This test is conducted as per EN 13501-1:2007+A1:2009(E) Fire classification of construction products and building elements— Part 1: Classification using data from reaction to fire tests, Class B_{fl} . And the test methods as following:

- 1. EN ISO 9239-1:2002 Reaction to fire tests for floorings—Part 1: Determination of the burning behaviour using a radiant heat source.
- 2. EN ISO 11925-2:2002 Reaction to fire tests Ignitability of building products subjected to direct impingement of flame Part 2: Single-flame source test.

I. Details of classified product

Description

The details of the tested specimen given below have been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

Name:	PVC INTERLOCKING TILES
Color:	Grey
Area density:	9.0 kg/m ²
Thickness:	About 7 mm

II. Test Result

1. EN ISO 9239-1:2002 Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source



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results shown in this test report refer only to the sample(s) test	ted and such	sample(s) are retai	ned for 30 days only	1.
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	Furthest extent	Critical Heat Flux						
Specimen No.	of spread of	(CHF or HF-30) Comments and Observation						
	flame(mm)	kW/m ²						
1(Lengthwise)	Lengthwise) 40 ≥11 Charring							
2(Lengthwise)	60	≥11	Charring					
3(Lengthwise)	40	≥11	Charring					
The mean value for the critical heat flux (CHF and/or HF-30) from the three specimens from the same								
orientation: ≥11 kW/m ²								
Smoking measurement								
Integrated smoke value: 76 %×min								

2. EN ISO 11925-2: 2002 Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test

Ignition Position	Face Ignition and Edge ignition	
Flame Application Time	15s	

	Specimen No. & Result					
Expression of results	Face Ignition			Edge ignition		
	1	2	3	4	5	6
Whether ignition occurs (Yes/No)	No	No	No	Yes	Yes	Yes
Whether the flame tip reaches 150 mm above the flame application point, and the time at which this occurs (No/Time)	No	No	No	No	No	No
Whether ignition of the filter paper occurs (Yes/No)	No	No	No	No	No	No



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III. Classification and direct field of application

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

Classification

The product, "PVC INTERLOCKING TILES", classification is as following,

Fire behaviour		Smok	e production
B _{fl}	—	S	1

Reaction to fire classification: B_{fl}-s1

Remark: The classes with their corresponding fire performance are given in annex A.

Reaction to fire classification is based on the 7-step scale of $A1_{fl}$ to F_{fl} , where $A1_{fl}$ is good and F_{fl} is bad.

- Statement: The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.
- Warning: This classification report does not represent type approval or certification of the product. The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.



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Annex A

Classes of reaction to fire performance for floorings

Class	Test method(s)	Classification criteria	Additional classification
	EN ISO 1182 ^a	$\Delta T \leq 30$ °C; and	-
	and	$\Delta m \leq 50$ %; and	
		$t_{\rm f} = 0$ (i.e. no sustained flaming)	
A1 _{fl}	EN ISO 1716	$PCS \le 2,0 \text{ MJ/kg}^{a}$ and	-
		$PCS \le 2,0 \text{ MJ/kg}^{\text{b}}$ and	
		$PCS \le 1,4 \text{ MJ/m}^2 \circ \text{and}$	
		<i>PCS</i> ≤ 2,0 MJ/kg ^d	
	EN ISO 1182 ª	$\Delta T \le 50 \ ^{\circ}$ C and	-
	or	$\Delta m \leq 50$ % and	
		<i>t</i> _f ≤ 20 s	
	EN ISO 1716	$PCS \leq 3,0 \text{ MJ/kg}^{a}$ and	-
A2 _{fl}	and	$PCS \le 4,0 \text{ MJ/m}^{2b}$ and	
		$PCS \le 4,0 \text{ MJ/m}^{2 \text{ c}}$ and	
		<i>PCS</i> ≤ 3,0 MJ/kg ^d	
	EN ISO 9239-1 ^e	Critical flux $^{\dagger} \ge 8,0 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 9239-1 °	Critical flux $^{\dagger} \ge 8,0 \text{ kW/m}^2$	Smoke production ^g
D	and		
Dfl	EN ISO 11925-2 ^h :	<i>F</i> s ≤ 150 mm within 20 s	-
	Exposure = 15 s		



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Class	Test method(s)	Classification criteria	Additional classification
C fl	EN ISO 9239-1 ^e and	Critical flux $^{\prime} \ge 4,5 \text{ kW/m}^2$	Smoke production ⁹
	EN ISO 11925-2 ^h :	$Fs \le 150 \text{ mm}$ within 20 s	
	Exposure = 15 s		
	EN ISO 9239-1 ^e	Critical flux $^{\dagger} \ge 3,0 \text{ kW/m}^2$	Smoke production ^g
П.,	and		
D fl	EN ISO 11925-2 ^h :	<i>F</i> s≤150mm within 20 s	
	Exposure = 15 s		
E.	EN ISO 11925-2 ⁿ :	Fs ≤ 150 mm within 20 s	
⊏fl	Exposure = 15 s		
Ffl	No performance determined	•	•

^a For homogeneous products and substantial components of non-homogeneous products.

^b For any external non-substantial component of non-homogeneous products.

^c For any internal non-substantial component of non-homogeneous products.

^d For the product as a whole.

^e Test duration = 30 min.

^f Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).

^g **s1** = Smoke ≤ 750 % minutes;

s2 = not s1.

^h Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack



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Test item 13: SVHC

Summary:

According to the specified scope and analytical techniques, SVHC with concentration >WARNING0.1% (w/w) detected in the submitted sample:(See remark)

- Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)
- Bis(2-ethylhexyl)phthalate (DEHP)

Remark:

(1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

(2) Concerning article(s):

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of 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) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

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

SGS adopts the interpretation of ECHA for SVHC in article unless indicated otherwise. Detail explanation is available at the following link:

http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf (3) Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration



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in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(4) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

- a mixture that is classified as dangerous according Dangerous Preparations Directive 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or

- a mixture is not classified as dangerous under Directive 1999/45/EC, but contains either:
(a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of \geq 0.1 % by weight for non-gaseous mixtures; or

(d) a substance for which there are Europe-wide workplace exposure limits.

(5) If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.



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Test method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.

Test result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001	RL (%)
			Concentration (%	5)
I	Alkanes, C10-13, chloro (Short Chain	85535-84-8	6.017	0.050
	Chlorinated Paraffins)			
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	18.175	0.050
-	Other tested SVHC in candidate list	-	ND	-

Notes:

1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3.*The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH

website: www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm.

4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum,

zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively),

except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).

5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.

6. Δ CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8.

7. chi CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride,

Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0,

19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.

8. § The substance is proposed for the identification as SVHC only where it contains

Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).



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Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
Ι	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
Ι	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
Ι	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
Ι	4	Anthracene	120-12-7	0.050
Ι	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
Ι	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
Ι	7	Bis(tributyItin)oxide (TBTO)	56-35-9	0.050
Ι	8	Cobalt dichloride*	7646-79-9	0.005
Ι	9	Diarsenic pentaoxide*	1303-28-2	0.005
Ι	10	Diarsenic trioxide*	1327-53-3	0.005
Ι	11	Dibutyl phthalate (DBP)	84-74-2	0.050
Ι	12	Hexabromocyclododecane (HBCDD) and all major	25637-99-4,	0.050
		diastereoisomers identified (α -HBCDD, β -HBCDD,	3194- 55-6	
		γ-HBCDD)∆		
Ι	13	Lead hydrogen arsenate*	7784-40-9	0.005
Ι	14	Sodium dichromate*	7789-12-0,	0.005
			10588-01-9	
Ι	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
П	17	Acrylamide	79-06-1	0.050
П	18	Anthracene oil*	90640-80-5	0.050
П	19	Anthracene oil, anthracene paste*	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2	0.050
II	21	Anthracene oil, anthracene paste, distn. lights*	91995-17-4	0.050
П	22	Anthracene oil, anthracene-low*	90640-82-7	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
П	23	Diisobutyl phthalate	84-69-5	0.050
П	24	Lead chromate*	7758-97-6	0.005
II	25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
11	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
П	27	Pitch, coal tar, high temp.*	65996-93-2	0.050
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
Ш	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005
Ш	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
Ш	32	Potassium chromate*	7789-00-6	0.005
111	33	Potassium dichromate*	7778-50-9	0.005
	34	Sodium chromate*	7775-11-3	0.005
	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid,	7738-94-5	0.005
		Oligomers of chromic acid and dichromic acid,	-	
		Dichromic acid*	13530-68-2	
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)	
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005	
V	45	1,2,3-trichloropropane	96-18-4	0.050	
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050	
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050	
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050	
V	49	2-ethoxyethyl acetate	111-15-9	0.050	
V	50	Hydrazine	7803-57-8, 302-01-2	0.050	
V	51	Strontium chromate*	7789-06-2	0.005	
VI	52	1,2-Dichloroethane	107-06-2	0.050	
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050	
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050	
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050	
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005	
VI	57	Arsenic acid*	7778-39-4	0.005	
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050	
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050	
VI	60	Calcium arsenate*	7778-44-1	0.005	
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005	
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050	
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005	
VI	64	Lead dipicrate*	6477-64-1	0.005	
VI	65	Lead styphnate*	15245-44-0	0.005	
VI	66	N,N-dimethylacetamide	127-19-5	0.050	



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Batch	No.	Substance Name	CAS No.	RL (%)	
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005	
VI	68	Phenolphthalein	77-09-8	0.050	
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005	
VI	70	Trilead diarsenate*	3687-31-8	0.005	
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005	
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050	
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050	
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050	
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050	
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050	
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050	
VII	78	Diboron trioxide*	1303-86-2	0.005	
VII	79	Formamide	75-12-7	0.050	
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005	
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050	
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	2451-62-9	0.050	



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride,	85-42-7,	0.050
		cis-cyclohexane-1,2-dicarboxylic anhydride,	13149-00-3,	
		trans-cyclohexane-1,2-dicarboxylic anhydride	14166-21-3	
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride,	X	0.050
		Hexahydro-4-methylphathalic anhydride,		
		Hexahydro-1-methylphathalic anhydride,		
		Hexahydro-3-methylphathalic anhydride		
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
Х	147	Disodium 3,3'-	573-58-0	0.050
		[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su		
		lphonate) (C.I. Direct Red 28)		
Х	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo]	1937-37-7	0.050
		[1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-		
		(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)		
Х	149	Imidazolidine-2-thione: (2-imidazoline-2-thiol)	96-45-7	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)	
х	150	Lead di(acetate)*	301-04-2	0.005	
Х	151	Trixylyl phosphate	25155-23-1	0.050	
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050	
XI	153	Cadmium chloride*	10108-64-2	0.005	
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005	
XI	155	Sodium peroxometaborate*	7632-04-4	0.005	
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050	
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050	
XII	158	2-Ethylhexyl	15571-58-1	0.050	
		10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE			
XII	159	Reaction mass of 2-ethylhexyl	-	0.050	
		10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2-			
		[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di			
		MOTE)			
XII	160	Cadmium fluoride*	7790-79-6	0.005	
XII	161	Cadmium sulphate*	10124-36-4,	0.005	
			31119-53-6		
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters;	68515-51-5,	0.050	
		1,2-benzenedicarboxylic acid, mixed decyl and hexyl and	68648-93-1		
		octyl diesters with \geq 0.3% of dihexyl phthalate			



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Batch	No.	Substance Name	CAS No.	RL (%)	
XIII	163	5-sec-butyl-2-	-	0.050	
		(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]			
XIV	164	1,3-propanesultone	1120-71-4	0.050	
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050	
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol	36437-37-3	0.050	
		(UV-350)			
XIV	167	Nitrobenzene	98-95-3	0.050	
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium	375-95-1,21049-39-8	8, 0.050	
		salts	4149-60-4		

- Note: 1. According to the requirement of EN 649:2011 and EN 685:2007 for homogeneous sample and test item 1, 2, 3,
 4 and 6, this product can comply with the Classification Class 34 for commercial very heavy or Class 43 for light industry heavy.
 - 2. All test specimens were cut from the sample except that of test item 3, 6 and 8.
 - 3. The test item 8 was carried out by a SGS internal laboratory.



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********End of report*******



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