

## TEST REPORT

No. : XMIN2306000468CM01\_EN

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CUSTOMER NAME: YDL AUSTRALIA PTY LTD  
ADDRESS: 65 BABBAGE DR, DANDENONG SOUTH VIC 3175

Sample Name : LOW SILICA ENGINEERED STONE  
Manufacturer : XIAMEN YADONGLONG IMP.&EXP.CO., LTD

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

\*\*\*\*\*

SGS Ref. No. : XMIN2306000021CPC01, SHMR230601172901,  
SHIN2306000774CM01\_EN  
Date of Receipt : 2023-06-20  
Testing Period : 2023-06-20 ~ 2023-07-26  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services Co.,Ltd. Xiamen Branch.

Civi Huang  
Authorized signatory



SGS-CSTC Standards Technical Services Co.,Ltd.  
Xiamen Branch Testing Centre Commercial Construction Material Laboratory

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## Summary of test results:

Clause	Test items	Test methods	Test results	Page
1	Water absorption	EN 14617-1:2013	0.02% Classification: W <sub>4</sub>	4
	Apparent density		2298kg/m <sup>3</sup>	
2	Flexural strength	EN 14617-2:2016	52.9MPa Classification: F <sub>4</sub>	5
3	Freeze and thaw resistance	EN 14617-5:2012	Flexural strength after freeze and thaw: 52.5MPa KM <sub>f25</sub> : 99.20	6
4	Thermal shock resistance	EN 14617-6:2012	Mass loss: 0.03% Flexural strength after thermal shock: 53.4MPa Flexural strength loss: -0.9%	7
5	Slip resistance (polished)	EN 14231:2003	SRV "dry": 64 SRV "wet": 10	8
6	Abrasion resistance (polished)	EN 14617-4:2012	28.4mm Classification: A <sub>4</sub>	8
7	Resistance to fixing (dowel hole)	EN 14617-8:2007	2010 N	9
8	Impact resistance	EN 14617-9:2005	7.21J	10
9	Stain resistance	EN 14617-10:2012 Annex A	No effect	11
10	Linear thermal expansion coefficient	EN 14617-11:2005	24.6×10 <sup>-6</sup> /°C	11
11	Dimensional stability	EN 14617-12:2012	Class: A Vertical displacement: 0.01mm	12
12	Compressive strength	EN 14617-15:2005	265MPa	12
13	Surface Resistivity*	EN 14617-13:2013 section 4.3 and client's requirement	5.66×10 <sup>12</sup> Ω/sq	13
14	Volume Resistivity*	EN 14617-13:2013 section 4.6 and client's requirement	1.13×10 <sup>11</sup> Ω·m	15



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Clause	Test items	Test methods	Test results	Page
15	Thermal Conductivity and Thermal Resistance*	EN 12664:2001 Heat Flow Meter Method	Thermal Conductivity: 0.471 W/(m·K) Thermal Resistance: 0.042 (m <sup>2</sup> ·K)/W	17
16	SVHC*	SGS In House method SGS XMCCCL TOP 022 01, SGS XMCCCL TOP 022 02, SGS XMCCCL TOP 022 03	ND Pass	18

Note: \* test project/method was carried out by subcontractors.

Original Sample Photo:



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## 1.Apparent density and water absorption

### **Test Method:**

EN 14617-1:2013 Agglomerated stone - Test methods - Part 1: Determination of apparent density and water absorption

Specimens: Agglomerated stone, 100mm×100mm×20mm, 6pcs, one face polished

### **Test Result:**

Specimens identification No.	1	2	3	4	5	6
Water absorption (%)	0.02	0.02	0.02	0.02	0.02	0.02
Arithmetic mean of the water absorption (%)	0.02					
Apparent density (kg/m <sup>3</sup> )	2298	2298	2298	2298	2298	2298
Arithmetic mean of the apparent density (kg/m <sup>3</sup> )	2298					

Classification according to EN 15285:2008/AC:2008:  $W_4$ <sup>note</sup>

Note:  $W_1 > 2.0\%$ ,  $2.0\% \geq W_2 > 0.5\%$ ,  $0.5\% \geq W_3 > 0.05\%$ ,  $W_4 \leq 0.05\%$



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## 2.Flexural strength in natural condition

### **Test Method:**

EN 14617-2:2016 Agglomerated stone - Test methods - Part 2: Determination of flexural strength (bending)

Specimens: Agglomerated stone, 200mm×50mm×20mm, 10pcs, one face polished

Loading rate: (0.25±0.05)MPa/s

### **Test Result:**

Specimens identification No.	1	2	3	4	5	6	7	8	9	10
Flexural strength (MPa)	51.1	57.1	49.3	44.5	50.9	50.21	55.7	57.5	56.6	55.7
Mean value (MPa)	52.9									
Standard deviation (MPa)	4.3									
Lower expected value (MPa)	44.2									

Classification according to EN 15285:2008/AC:2008:  $F_4$ <sup>note</sup>

Note:  $F_1 < 12.0\text{MPa}$ ,  $12.0\text{MPa} \leq F_2 < 25.0\text{MPa}$ ,  $25.0\text{MPa} \leq F_3 < 40.0\text{MPa}$ ,  $F_4 \geq 40.0\text{MPa}$



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### 3.Freeze and thaw resistance

#### **Test Method:**

EN 14617-5:2012 Agglomerated stone - Test methods - Part 5: Determination of freeze and thaw resistance

Specimens: Agglomerated stone, 200mm×50mm×20mm, 11pcs, one face polished

Loading rate: (0.25±0.05)MPa/s

#### **Test Result:**

Flexural strength subjected to 25 cycles freeze/thaw resistance:

Specimens identification No.	1	2	3	4	5	6	7	8	9	10
Flexural strength (MPa)	48.9	55.9	52.8	58.7	50.6	53.6	53.1	51.3	47.0	52.8
Mean value (MPa)	52.5									
Standard deviation (MPa)	3.4									
Lower expected value (MPa)	45.8									
KM <sub>f25</sub>	99.20									

$$KM_{f25} = RM_f / R_f \times 100$$

R<sub>f</sub> means the flexural strength in natural condition

RM<sub>f</sub> means the flexural strength subjected to 25 cycles freeze/thaw resistance



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### 4. Thermal shock resistance

#### **Test Method:**

EN 14617-6:2012 Agglomerated stone – Test methods – Part 6: Determination of thermal shock resistance

Specimens: Agglomerated stone, 200mm×50mm×20mm, 10pcs, one face polished

#### **Test Result:**

After 20 cycles of thermal shock:

For each specimen, there is no obvious change of colour, no obvious appearance of spots, no obvious swelling, no obvious cracking, no obvious scaling or exfoliation.

The change in mass:

Specimens identification No.	1	2	3	4	5	6	7	8	9	10
Mass loss (%)	0.02	0.02	0.05	0.03	0.03	0.02	0.02	0.03	0.03	0.03
Mean mass loss (%)	0.03									

The flexural strength after 20 cycles thermal shock resistance: (Loading rate: (0.25±0.05) MPa/s)

Specimens identification No.	1	2	3	4	5	6	7	8	9	10
Flexural strength (MPa)	55.9	50.3	51.9	49.8	54.1	55.5	50.7	56.1	55.9	53.6
Mean value (MPa)	53.4									
Standard deviation (MPa)	2.6									
Lower expected value (MPa)	48.3									

The change in flexural strength: -0.9%



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### 5.Slip resistance

#### **Test Method:**

EN 14231:2003 Natural stone test methods - Determination of the slip resistance by means of the pendulum tester

Specimens: Agglomerated stone, 200mm×150mm×20mm, 6pcs, one face polished

Testing surface: polished

#### **Test Result:**

Specimens identification No.	1	2	3	4	5	6
Mean pendulum value (Dry condition)	62	65	67	65	66	62
Slip resistance value (SRV "dry")	64					
Mean pendulum value (Wet condition)	10	10	10	10	10	10
Slip resistance value (SRV "wet")	10					

### 6.Abrasion resistance

#### **Test Method:**

EN 14617-4:2012 Agglomerated stone - Test methods - Part 4: Determination of abrasion resistance

Specimens: Agglomerated stone, 150mm×100mm×20mm, 6pcs, one face polished

Testing surface: polished

#### **Test Result:**

Specimens identification No.	1	2	3	4	5	6
The length of the groove (mm)	27.5	28.0	28.5	28.5	29.0	29.0
Mean value (mm)	28.4					

Classification according to EN 15285:2008/AC:2008: A<sub>4</sub><sup>note</sup>

Note: A<sub>1</sub>>36.5mm, 36.5mm≥A<sub>2</sub>>33.0mm, 33.0mm≥A<sub>3</sub>>29.0mm, A<sub>4</sub>≤29.0mm.



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## 7. Resistance to fixing (dowel hole)

### Test Method:

EN 14617-8:2007 Agglomerated stone - Test methods - Part 8: Determination of resistance to fixing (dowel hole)

Specimens: Agglomerated stone, 200mm×200mm×20mm, 3pcs, one face polished, 4 holes were drilled on each specimen.

Diameter of the hole: 10mm, Diameter of the dowel: 6mm

Loading rate: (50±5) N/s

### Test results:

Specimens identification No.		d <sub>1</sub> (mm)	b <sub>A</sub> (mm)	Breaking load F (N)
1	Hole 1	5	25	2200
	Hole 2	6	28	3400
	Hole 3	5	23	2250
	Hole 4	6	22	1400
2	Hole 1	4	14	2300
	Hole 2	3	16	1500
	Hole 3	5	23	2000
	Hole 4	3	19	850
3	Hole 1	6	20	1500
	Hole 2	5	28	2650
	Hole 3	4	24	1450
	Hole 4	4	20	2050
Mean value		5	22	2010
Lower expected value		/	/	724
Standard deviation		/	/	880

d<sub>1</sub>: Distance from the hole to the face

b<sub>A</sub>: Maximum distance from the centre of the hole to the edge of the fracture



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## 8.Impact resistance

### Test Method:

EN 14617-9:2005 Agglomerated stone - Test methods - Part 9: Determination of impact resistance

Specimens: Agglomerated stone, 200mm×200mm×20mm, 4pcs, one face polished

Testing surface: polished

### Test Result:

Specimens identification No.	1	2	3	4
Drop height, $h$ (m)	0.70	0.70	0.70	0.70
Fracture work, $L$ (J)	7.21	7.21	7.21	7.21
Average value (J)	7.21			

### Note:

The fracture work  $L$  in joule is expressed by the formula

$$L=M \times h \times g$$

Where

$M$  is the sphere mass, 1.050kg,

$h$  is the drop height in meters of the sphere which causes the sample to break,

$g$  is the gravity acceleration equal to 9.806m/s<sup>2</sup>.



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### 9.Stain resistance

#### **Test Method:**

EN 14617-10:2012 Agglomerated stone - Test methods - Part 10: Determination of chemical resistance Annex A Determination of the resistance to stains

Specimens: Agglomerated stone, 70mm×70mm×20mm, 4pcs, one face polished

#### **Test Result:**

No.	Reagents	Contact time	Result	Contact time	Result
1	Wine	1h	No effect	24h	No effect
2	Coffee	1h	No effect	24h	No effect
3	Cola	1h	No effect	24h	No effect
4	Grout	1h	No effect	24h	No effect

### 10.Linear thermal expansion coefficient

#### **Test Method:**

EN 14617-11:2005 Agglomerated stone - Test methods - Part 11: Determination of linear thermal expansion coefficient

Specimens: Agglomerated stone, 50mm×10mm×10mm, 3pcs, one face polished

Heating rate: 3°C/min

#### **Test Result:**

Temperature: range from 30°C to 60°C.

Specimens identification No.	1	2	3
Linear thermal expansion coefficient (10 <sup>-6</sup> /°C)	25.7	23.8	24.4
Mean value(10 <sup>-6</sup> /°C)	24.6		



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## 11. Dimensional stability

### **Test Method:**

EN 14617-12:2012 Agglomerated stone - Test methods - Part 12: Determination of dimensional stability

Specimens: Agglomerated stone, 300mm×300mm×20mm, 1pcs, one face polished

### **Test Result:**

Vertical displacement: 0.01mm.

Classification: Class A<sup>note</sup>

### Note:

Vertical displacement after the test

Class A: ≤ 0.3 mm

Class B: > 0.3 mm and ≤ 0.6 mm

Class C: > 0.6 mm

## 12. Compressive Strength

### **Test Method:**

EN 14617-15:2005 Agglomerated stone - Test methods - Part 15: Determination of compressive strength Specimens: Agglomerated stone, 50mm×50mm×20mm, one face polished

Test speed: 1MPa/s

### **Test Result:**

Specimens identification No.	1	2	3	4	5	6
Compressive strength (MPa)	272	264	293	260	250	250
Mean value (MPa)	265					
Standard deviation (MPa)	17					



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13. Test Item: Surface Resistivity

**Test Method:**

EN 14617-13:2013 section 4.3

Client's requirement:

Test voltage: 500 Vdc

Test Condition:

Precondition: (23±2) °C, (50±10) %RH, 24h

Test condition: 22.3 °C, 51.2 %RH

Test electrode diameter: D<sub>1</sub>=50 mm, D<sub>2</sub>=60 mm

Test voltage: 500 Vdc

Electrification time: 1 min

**Test Result:**

Specimen No.	Surface Resistance R <sub>s</sub> (Ω)	Surface Resistivity ρ <sub>s</sub> (Ω/sq)
1	1.22×10 <sup>11</sup>	2.11×10 <sup>12</sup>
2	4.55×10 <sup>11</sup>	7.86×10 <sup>12</sup>
3	3.19×10 <sup>11</sup>	5.51×10 <sup>12</sup>
4	2.71×10 <sup>11</sup>	4.68×10 <sup>12</sup>
5	4.71×10 <sup>11</sup>	8.13×10 <sup>12</sup>
Average	3.28×10 <sup>11</sup>	5.66×10 <sup>12</sup>



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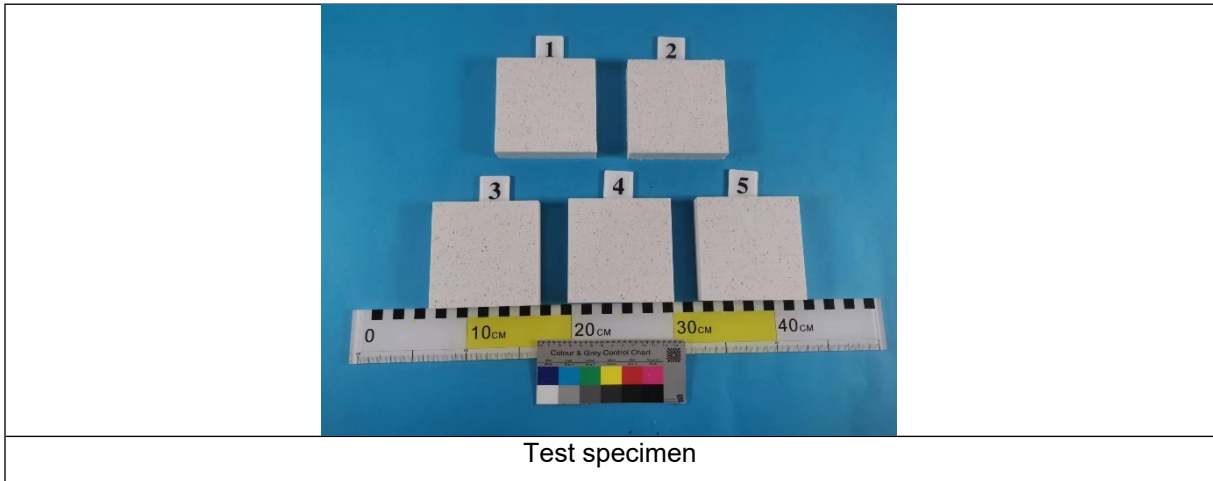
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14.Test Item: Volume Resistivity

**Test Method:**

EN 14617-13:2013 section 4.6

Client's requirement:

Test voltage: 500 Vdc

Test Condition:

Precondition: (23±2) °C, (50±10) %RH, 24 h

Test condition: 22.3 °C, 51.2 %RH

Electrode diameter: D<sub>1</sub>=50 mm, D<sub>2</sub>=60 mm

Test voltage: 500 Vdc

Electrification time: 1 min

**Test Result:**

Specimen No.	Thickness (mm)	Volume Resistance R <sub>v</sub> (Ω)	Volume Resistivity ρ <sub>v</sub> (Ω·m)
1	20.04	7.34×10 <sup>11</sup>	8.70×10 <sup>10</sup>
2	19.82	1.00×10 <sup>12</sup>	1.20×10 <sup>11</sup>
3	19.86	6.34×10 <sup>11</sup>	7.58×10 <sup>10</sup>
4	19.88	1.23×10 <sup>12</sup>	1.47×10 <sup>11</sup>
5	19.72	1.11×10 <sup>12</sup>	1.34×10 <sup>11</sup>
Average	--	9.42×10 <sup>11</sup>	1.13×10 <sup>11</sup>



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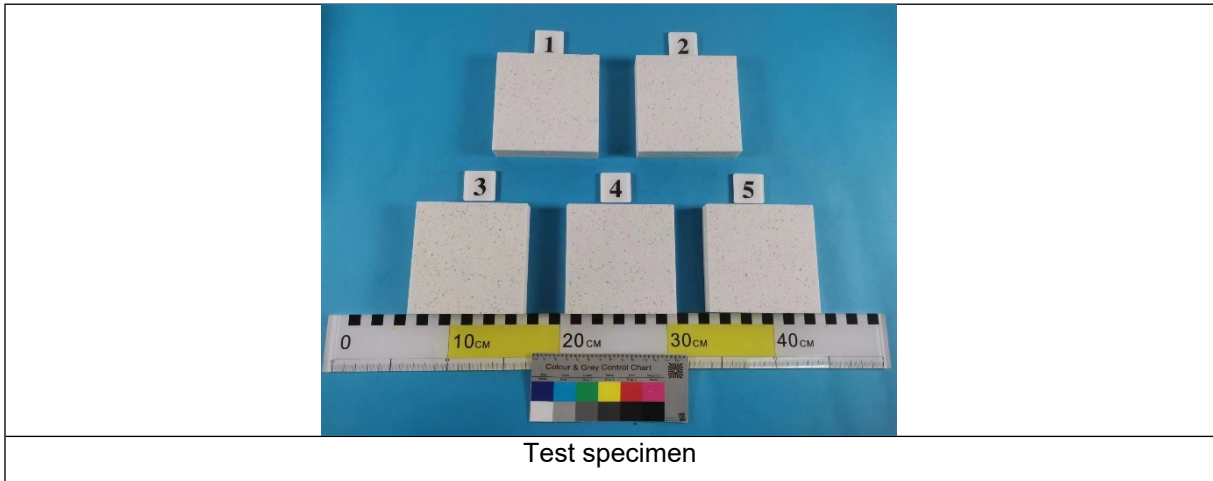
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15.Test Item: Thermal Conductivity and Thermal Resistance

**Test Method:**

EN 12664:2001 Heat Flow Meter Method

Test Condition:

Specimen: 300mm×300mm×19.7mm, 1pc

Density: about 2311kg/m<sup>3</sup>

Mean temperature: 23°C

Temperature difference: 10°C

Lab Environmental Condition: (23±2)°C, (50±5)%RH

**Test Result:**

Test Item	Test Result
Thermal Conductivity	0.471 W/(m·K)
Thermal Resistance	0.042 (m <sup>2</sup> ·K)/W

Note:

1. The test result can not be compared with other results obtained from different test conditions, and should not be cited to the use condition directly.
2. Remove the film before test.



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### 16. SVHC

Test Requested: As requested by client, SVHC screening is performed according to: (i) Two hundred and thirty-five (235) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 14, 2023 regarding Regulation (EC) No 1907/2006 concerning the REACH. (ii) One (1) potential Substances of Very High Concern (SVHC) in the notification of WTO on Jun 1, 2021.

Summary: According to the specified scope and evaluation screening, the test results of SVHC are  $\leq 0.1\%$  (w/w) in the submitted sample.

Conclusion: Pass

Remark :

- 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. REACH obligation:

##### 2.1 Concerning article(s):

Communication:

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.

Notification:

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).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

##### 2.2 Concerning material(s):



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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 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.

### 2.3 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 its amendments, 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 hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
  - (a) a substance posing human health or environmental hazards in an individual concentration of  $\geq 1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq 0.2\%$  by volume for gaseous mixtures; or
  - (b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1\%$  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.

3. 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 REPORT

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### Test Method :

SGS In-House method- SGS-XMCCL-TOP-022-01, SGS-XMCCL-TOP-022-02, SGS-XMCCL-TOP-022-03, 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.	Result Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

### Test Result: (Potential SVHC)

Batch	Substance Name	CAS No.	Result Concentration (%)	RL (%)
-	All tested Potential SVHC	-	ND	-

### Summary :

According to the specified scope and evaluation screening, the test results of SVHC are PASS  
 $\leq 0.1\%$  (w/w) in the submitted sample.

### Notes :

- 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.
- RL = Reporting Limit (Test data will be shown if it  $\geq$  RL. RL is not regulatory limit.) ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- \* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- \*\* The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
- RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium, cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.
- Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.  
 Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
- § 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)  $\geq 0.1\%$  (w/w).
- / = Potential SVHC  
 Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w =0) stated in ILAC-G8:09/2019.



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### Appendix Full list of tested SVHC:

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



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### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
III	29	Ammonium dichromate*	7789-09-05	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-03	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
III	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, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005



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### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
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
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*	7789-06-02	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 *	-	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



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### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
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
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*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] 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]dimethylammonium 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



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### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
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)-trione)	2451-62-9	0.050
VII	83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	$\beta$ -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



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### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
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, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
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
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	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
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



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## Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
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
VIII	128	Pentacosfluorotridecanoic 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	Tricosfluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005



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### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
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
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	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	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	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*	7632-04-04	0.005



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### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
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 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 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 & MOTE)	-	0.050
XIII	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	-	0.050
XIII	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]	-	0.050
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 (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050



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### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	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" <sup>TM</sup> ) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	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]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050



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### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	1985-1-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	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)	-	0.050
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050



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## Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane 1,3-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)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	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]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050



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## Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	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)	-	0.050
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	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	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	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	-	0.050
XXIX	234	bis(4-chlorophenyl) sulphone	1980-7-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
/	236	Resorcinol	108-46-3	0.050

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