

Test Report

No. TSNEC2102713801

Date: 20 Jan, 2022

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MAGNEQUENCH (TIANJIN) CO., LTD.
NO.19 QUANZHOU ROAD,WUQING DEVELOPMENT AREA TIANJIN CHINA,301700

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

SGS Job No: TP21-008907-TJ
Main Substance: Nd, Pr, La, Ce, Dy, B, Co, Fe, Ga, Nb, Al, Cu, Zr
Model No.: MQP-13-9-20063-070
Client Ref. Info.: SEE ATTACHMENT
Date of Sample Received: 28 December, 2021
Testing Period: 28 December, 2021 - 18 January, 2022
Test Requested: Selected test(s) as requested by client
Test Method: Please refer to next page(s)
Test Results: Please refer to next page(s)

Summary :

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.	PASS
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Test Request	Conclusion
Entry 61 of Regulation (EU) No 412/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Dimethyl fumarate(DMF)	PASS

Test Request	Conclusion
Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic Substances Control Act (TSCA) Section 6(h)	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou
Approved Signatory



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Test Results:

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	TSN21-027138.001	silver gray powder

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Halogen

Test Method: With reference to EN 14582: 2016, analysis was performed by Ion Chromatograph (IC).

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	140
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

Element(s)

Test Method: SGS in house method -TJChemLab-TOP-004-2 (With reference to US EPA 3052: 1996, US EPA 3051A:2007, US EPA 6010C:2007), analyzed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Beryllium (Be)	mg/kg	5	ND
Beryllium oxide (BeO) *	mg/kg	15	ND
Phosphorus (P)	mg/kg	20	ND
Arsenic (As)	mg/kg	10	ND
Antimony (Sb)	mg/kg	10	ND
Bismuth (Bi)	mg/kg	10	ND
Selenium (Se)	mg/kg	10	ND
Molybdenum (Mo)	mg/kg	5	38



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Tin (Sn)	mg/kg	5	ND
Chromium (Cr)	mg/kg	2	75
Silver (Ag)	mg/kg	10	ND
Barium (Ba)	mg/kg	10	ND

Notes:

- (1) *Calculated concentration of BeO is based on the identified Be

Element(s)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Thallium (Tl)	mg/kg	5	ND
Vanadium(V)	mg/kg	20	ND
Tellurium (Te)	mg/kg	10	ND

Notes:

- (1) This test of was subcontracted to SGS Shanghai chemical lab.

Nonylphenol (NP), Octylphenol (OP)

Test Method: With reference to US EPA 3550C:2007. Analysis was conducted by HPLC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Nonylphenol(NP)	mg/kg	50	ND
Octylphenol(OP)	mg/kg	50	ND

Notes:

- (1) Confirmation was conducted by GC-MS where necessary
 (2) The test was subcontracted to SGS Qingdao chemical lab.



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Polychlorinated Naphthalenes (PCNs)

Test Method: SGS in house method -TJChemLab-TOP-043 (With reference to US EPA 3550C:2007、US EPA8082:2007), analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
1-Chlorinated Naphthalene	mg/kg	5	ND
2-Chlorinated Naphthalene	mg/kg	5	ND
1,4-Dichlorinated Naphthalene	mg/kg	5	ND
1,5-Dichlorinated Naphthalene	mg/kg	5	ND
1,2-Dichlorinated Naphthalene	mg/kg	5	ND
1,8-Dichlorinated Naphthalene	mg/kg	5	ND
1,2,3-Trichlorinated Naphthalene	mg/kg	5	ND
1,2,3,4-Tetrachlorinated Naphthalene	mg/kg	5	ND
1,2,3,4,6-Pentachlorinated Naphthalene	mg/kg	5	ND
Octa-chlorinated Naphthalene	mg/kg	5	ND

Organic-tin compounds

Test Method: With reference to ISO 17353: 2004, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Monobutyl tin (MBT)	mg/kg	0.02	ND
Dibutyl tin (DBT)	mg/kg	0.02	ND
Tributyl tin (TBT)	mg/kg	0.02	ND
Monooctyl tin (MOT)	mg/kg	0.02	ND
Diocetyl tin (DOT)	mg/kg	0.02	ND
Tricyclohexyl tin (TCyT)	mg/kg	0.02	ND
Triphenyl tin (TPhT)	mg/kg	0.02	ND
Tetrabutyl tin (TTBT)	mg/kg	0.02	ND
Tri-n-propyl tin(TPrT)	mg/kg	0.02	ND
Triocetyl tin (TOT)	mg/kg	0.02	ND

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ODS

Test Method: With reference to US EPA 5021A-2014, analysis was performed by HS-GC-MS.

<u>Test Item(s)</u>	<u>CAS_NO</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
CFC		-	-	-
CFC-11	75-69-4	µg/g	0.1	ND
CFC-12	75-71-8	µg/g	0.1	ND
CFC-113	76-13-1	µg/g	0.1	ND
CFC-114	76-14-2	µg/g	0.1	ND
CFC-13	75-72-9	µg/g	0.1	ND
CFC-111	354-56-3	µg/g	0.1	ND
CFC-112	76-11-9	µg/g	0.1	ND
CFC-112	76-12-0	µg/g	0.1	ND
CFC-113	354-58-5	µg/g	0.1	ND
CFC-114	374-07-2	µg/g	0.1	ND
CFC-115	76-15-3	µg/g	0.1	ND
CFC-211	422-78-6	µg/g	0.1	ND
CFC-212	661-96-1	µg/g	0.1	ND
CFC-213	1652-89-7	µg/g	0.1	ND
CFC-214	677-68-9	µg/g	0.1	ND
CFC-215	1599-41-3	µg/g	0.1	ND
CFC-215	76-17-5	µg/g	0.1	ND
CFC-216	661-97-2	µg/g	0.1	ND
CFC-216	1652-80-8	µg/g	0.1	ND
CFC-217	422-86-6	µg/g	0.1	ND
HCFC		-	-	-
HCFC-21	75-43-4	µg/g	0.1	ND
HCFC-22	75-45-6	µg/g	0.1	ND
HCFC-123	306-83-2	µg/g	0.1	ND
HCFC-124	2837-89-0	µg/g	0.1	ND
HCFC-141b	1717-00-6	µg/g	0.1	ND
HCFC-142b	75-68-3	µg/g	0.1	ND
HCFC-31	593-70-4	µg/g	0.1	ND
HCFC-121	354-14-3	µg/g	0.1	ND
HCFC-122	354-21-2	µg/g	0.1	ND
HCFC-123a	354-23-4	µg/g	0.1	ND

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HCFC-124a	354-25-6	µg/g	0.1	ND
HCFC-131	359-28-4	µg/g	0.1	ND
HCFC-131a	811-95-0	µg/g	0.1	ND
HCFC-132a	471-43-2	µg/g	0.1	ND
HCFC-132b	1649-08-7	µg/g	0.1	ND
HCFC-133a	75-88-7	µg/g	0.1	ND
HCFC-221	422-26-4	µg/g	0.1	ND
HCFC-222	422-30-0	µg/g	0.1	ND
HCFC-223	422-52-6	µg/g	0.1	ND
HCFC-224	422-54-8	µg/g	0.1	ND
HCFC-225ca	422-56-0	µg/g	0.1	ND
HCFC-225cb	507-55-1	µg/g	0.1	ND
HCFC-226	431-87-8	µg/g	0.1	ND
HCFC-231	421-94-3	µg/g	0.1	ND
HCFC-232	460-89-9	µg/g	0.1	ND
HCFC-233	7125-84-0	µg/g	0.1	ND
HCFC-234	425-94-5	µg/g	0.1	ND
HCFC-235	460-92-4	µg/g	0.1	ND
HCFC-241	666-27-3	µg/g	0.1	ND
HCFC-242	460-63-9	µg/g	0.1	ND
HCFC-243	338-75-0	µg/g	0.1	ND
HCFC-244	679-85-6	µg/g	0.1	ND
HCFC-251	421-41-0	µg/g	0.1	ND
HCFC-252	819-00-1	µg/g	0.1	ND
HCFC-253	460-35-5	µg/g	0.1	ND
HCFC-261	7799-56-6	µg/g	0.1	ND
HCFC-261	420-97-3	µg/g	0.1	ND
HCFC-271	430-55-7	µg/g	0.1	ND
HCFC-262	102738-79-4	µg/g	0.1	ND
HCFC-262	420-99-5	µg/g	0.1	ND
Halon		-	-	-
Halon 1211	353-59-3	µg/g	0.1	ND
Halon 1301	75-63-8	µg/g	0.1	ND
Halon 2402	124-73-2	µg/g	0.1	ND



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HBFC

CHF ₂ Br	1511-62-2	μg/g	0.1	ND
CH ₂ FBr	373-52-4	μg/g	0.1	ND
C ₂ HFBr ₄	-	μg/g	0.1	ND
C ₂ HF ₂ Br ₃	-	μg/g	0.1	ND
C ₂ HF ₃ Br ₂	354-04-1	μg/g	0.1	ND
C ₂ HF ₄ Br	-	μg/g	0.1	ND
C ₂ H ₂ FBr ₃	-	μg/g	0.1	ND
C ₂ H ₂ F ₂ Br ₂	75-82-1	μg/g	0.1	ND
C ₂ H ₂ F ₃ Br	421-06-7	μg/g	0.1	ND
C ₂ H ₃ FBr ₂	-	μg/g	0.1	ND
C ₂ H ₃ F ₂ Br	359-07-9	μg/g	0.1	ND
C ₂ H ₄ FBr	762-49-2	μg/g	0.1	ND
C ₃ HFBr ₆	-	μg/g	0.1	ND
C ₃ HF ₂ Br ₅	-	μg/g	0.1	ND
C ₃ HF ₃ Br ₄	-	μg/g	0.1	ND
C ₃ HF ₄ Br ₃	-	μg/g	0.1	ND
C ₃ HF ₅ Br ₂	-	μg/g	0.1	ND
C ₃ HF ₆ Br	-	μg/g	0.1	ND
C ₃ H ₂ FBr ₅	-	μg/g	0.1	ND
C ₃ H ₂ F ₂ Br ₄	-	μg/g	0.1	ND
C ₃ H ₂ F ₃ Br ₃	-	μg/g	0.1	ND
C ₃ H ₂ F ₄ Br ₂	-	μg/g	0.1	ND
C ₃ H ₂ F ₅ Br	-	μg/g	0.1	ND
C ₃ H ₃ FBr ₄	-	μg/g	0.1	ND
C ₃ H ₃ F ₂ Br ₃	-	μg/g	0.1	ND
C ₃ H ₃ F ₃ Br ₂	-	μg/g	0.1	ND
C ₃ H ₃ F ₄ Br	-	μg/g	0.1	ND
C ₃ H ₄ FBr ₃	-	μg/g	0.1	ND
C ₃ H ₄ F ₂ Br ₂	-	μg/g	0.1	ND
C ₃ H ₄ F ₃ Br	-	μg/g	0.1	ND
C ₃ H ₅ FBr ₂	-	μg/g	0.1	ND
C ₃ H ₅ F ₂ Br	-	μg/g	0.1	ND
C ₃ H ₆ FBr	-	μg/g	0.1	ND

Others

Dibromofluoromethane	1868-53-7	μg/g	0.1	ND
Methyl bromide	74-83-9	μg/g	0.1	ND
Bromochloromethane	74-97-5	μg/g	0.1	ND
Sulphur Hexafluoride - SF ₆	2551-62-4	μg/g	0.1	ND



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HFC

HFC-23	75-46-7	µg/g	0.1	ND
HFC-32	75-10-5	µg/g	0.1	ND
HFC-41	593-53-3	µg/g	0.1	ND
HFC-43-10mee		µg/g	0.1	ND
HFC-125	354-33-6	µg/g	0.1	ND
HFC-134	359-35-3	µg/g	0.1	ND
HFC-134a	811-97-2	µg/g	0.1	ND
HFC-152a	75-37-6	µg/g	0.1	ND
HFC-143	420-46-2	µg/g	0.1	ND
HFC-143a	430-66-0	µg/g	0.1	ND
HFC-227ea		µg/g	0.1	ND
HFC-236cb		µg/g	0.1	ND
HFC-236ea	431-63-0	µg/g	0.1	ND
HFC-236fa	690-39-1	µg/g	0.1	ND
HFC-245ca	679-86-7	µg/g	0.1	ND
HFC-245fa		µg/g	0.1	ND
HFC-365mfc		µg/g	0.1	ND
HFC-161	353-36-6	µg/g	0.1	ND
HFC-152	-	µg/g	0.1	ND

PFC

Perfluoromethane	75-73-0	µg/g	0.1	ND
Perfluoroethane	76-16-4	µg/g	0.1	ND
Perfluoropropane	76-19-7	µg/g	0.1	ND
Perfluorobutane	355-25-9	µg/g	0.1	ND
Perfluoropentane	678-26-2	µg/g	0.1	ND
Perfluorohexane	355-42-0	µg/g	0.1	ND
Perfluorocyclobutane	115-25-3	µg/g	0.1	ND

CHC

1,3-dichloropropane	142-28-9	µg/g	0.1	ND
2,2-dichloropropane	594-20-7	µg/g	0.1	ND
Carbon tetrachloride	56-23-5	µg/g	0.1	ND
chloroethane	75-00-3	µg/g	0.1	ND
Chloroform	67-66-3	µg/g	0.1	ND
chloromethane	74-87-3	µg/g	0.1	ND
Cis-1,2-dichloroethene	156-59-2	µg/g	0.1	ND

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Test Report

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Cis-1,3-dichloropropene	10061-01-5	µg/g	0.1	ND
Hexachlorobutadiene	87-68-3	µg/g	0.1	ND
Methylene chloride	75-09-2	µg/g	0.1	ND
Tetrachloroethene	127-18-4	µg/g	0.1	ND
Trans-1,2-dichloroethene	156-60-5	µg/g	0.1	ND
Trans-1,3-dichloropropene	10061-02-6	µg/g	0.1	ND
Trichloroethylene	79-01-6	µg/g	0.1	ND
1,1,1,2-tetrachloroethane	630-20-6	µg/g	0.1	ND
1,1,1-trichloroethane	71-55-6	µg/g	0.1	ND
1,1,2,2-tetrachloroethane	79-34-5	µg/g	0.1	ND
1,1,2-trichloroethane	79-00-5	µg/g	0.1	ND
1,1-dichloroethane	75-34-3	µg/g	0.1	ND
1,1-dichloroethene	75-35-4	µg/g	0.1	ND
1,1-dichloropropene	563-58-6	µg/g	0.1	ND
1,2,3-trichloropropane	96-18-4	µg/g	0.1	ND
1,2-dichloroethane	107-06-2	µg/g	0.1	ND
1,2-dichloropropane	78-87-5	µg/g	0.1	ND

Pentachlorophenol (PCP), Tetrachlorophenol (TeCP) and Trichlorophenol (TriCP)

Test Method : With reference to ISO 17070: 2015, analysis was performed by GC-ECD or GC-MS.

Test Item(s)	Unit	MDL	001
Pentachlorophenol (PCP)	mg/kg	0.05	ND
2,3,5,6-Tetrachlorophenol (2,3,5,6 - TeCP)	mg/kg	0.05	ND
2,3,4-Trichlorophenol (2,3,4 - TriCP)	mg/kg	0.05	ND
2,3,5-Trichlorophenol (2,3,5 - TriCP)	mg/kg	0.05	ND
2,3,6-Trichlorophenol (2,3,6 - TriCP)	mg/kg	0.05	ND
2,4,5-Trichlorophenol (2,4,5 - TriCP)	mg/kg	0.05	ND
2,4,6-Trichlorophenol (2,4,6 - TriCP)	mg/kg	0.05	ND
3,4,5-Trichlorophenol (3,4, 5 - TriCP)	mg/kg	0.05	ND
Trichlorophenol (sum)	mg/kg	-	ND

Notes:

(1) This test was subcontracted to SGS Qingdao chemical lab.



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Hexachlorobenzene (HCB)

Test Method : With reference to US EPA 8081B: 2007/ 3620C: 2007/ 3630C:1996/3540C:1996, analysis was performed by GC-ECD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexachlorobenzene	118-74-1	mg/kg	0.1	ND

Notes:

(1) This test was subcontracted to SGS Shanghai chemical lab.

Acetaldehyde Content

Test Method: With reference to US EPA 5021A/US EPA 8260C. Analysis was performed by HS-GC-MS.

<u>Test Item(s)</u>	<u>CAS NO</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Acetaldehyde	75-07-0	µg/g	2.5	ND

Notes:

(1) This test was subcontracted to SGS Shanghai chemical lab.

Ethylene oxide

Test Method: SGS In house method(SHTC-CHEM-SOP-143-T), analysis was performed by HS-GC-MS

<u>Test Item(s)</u>	<u>CAS NO</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Ethylene oxide	75-21-8	mg/kg	5	ND

Notes:

(1) This test was subcontracted to SGS Shanghai chemical lab.



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Vinyl Chloride Monomer (VCM)

Test Method: According to GB/T4615-2013, analysis was performed by HS-GC-FID.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
VCM(Vinyl Chloride Monomer)	mg/kg	0.1	ND

Notes:

(1) This test was subcontracted to SGS Shanghai chemical lab.

Perfluorooctane Sulfonates (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by LC/MSMS.

<u>Test Item(s):</u>	<u>CAS No.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctanesulfonate (PFOS) and its derivatives	-	mg/kg	-	ND
Perfluorooctanesulfonate (PFOS) ^	1763-23-1	mg/kg	0.01	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.01	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	mg/kg	0.01	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	mg/kg	0.01	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	mg/kg	0.01	ND
Perfluorooctane sulfonamide (PFOSA)	754-91-6	mg/kg	0.01	ND
Perfluorooctanoic Acid (PFOA) and its salts+	-	mg/kg	0.01	ND

Note:

- (1) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)
- (2) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1).



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Asbestos

Test Method : With reference to NIOSH 9000:2015 and ISO 22262-1:2012. analysis was performed by X-ray diffractometer (XRD) and Polarized light microscope (PLM).

<u>Test Item(s)</u>	<u>CAS NO</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Actinolite	77536-66-4	%(w/w)	0.1	Negative
Amosite	12172-73-5	%(w/w)	0.1	Negative
Anthophyllite	77536-67-5	%(w/w)	0.1	Negative
Chrysotile	12001-29-5/ 132207-32-0	%(w/w)	0.1	Negative
Crocidolite	12001-28-4	%(w/w)	0.1	Negative
Tremolite	77536-68-6	%(w/w)	0.1	Negative

Notes :

- (1) Negative = the absence of asbestos, Positive = the presence of asbestos.
- (2) This test was subcontracted to SGS Shanghai chemical lab.

Volatile Organic Compounds (VOCs)

Test Method: With reference to US EPA 5021A:2014, analysis was performed by HS-GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
1,2-Dibromoethane	mg/kg	10	ND
1,1,1-Trichloroethane	mg/kg	10	ND
Carbon tetrachloride	mg/kg	10	ND
Methylene chloride(DCM)	mg/kg	10	ND
Benzene	mg/kg	5	ND
Nitrobenzene	mg/kg	10	ND
Phenol	mg/kg	10	ND

Notes:

- (1) This test was subcontracted to SGS Shanghai chemical lab.



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Tetrabromobisphenol A (TBBP-A)

Test Method: SGS in house method-TJChemLab-TOP-036-2 (With reference to US EPA 3550C: 2007、US EPA 3540C:1996、US EPA 8270D:2014), analyzed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	10	ND

Formaldehyde

Test Method: With reference to ISO 17226-1: 2021, analysis was performed by HPLC-DAD.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Formaldehyde	mg/kg	16	ND

Commission Regulation (EU) No 412/2012 and Entry 61 of Annex XVII of REACH Regulation (EC) No 1907/2006 - Dimethyl fumarate(DMF)

Test Method: SGS in house method -TJChemLab-TOP-064 (With reference to US EPA 3550C:2007、US EPA 8270D:2014), analysis was performed by GC-MS.

<u>Test Item(s):</u>	<u>Recommended Max. Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dimethyl fumarate(DMF)	0.1	mg/kg	0.1	ND

Mirex

Test Method: With reference to US EPA 8081B: 2007, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Mirex	2385-85-5	mg/kg	5	ND

Notes:

(1) This test was subcontracted to SGS Shanghai chemical lab.



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Cationic Surfactants

Test Method: With reference to US EPA Method 3550C:2007, analysis was performed by LC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
DTDMAC	mg/kg	20	ND
DODMAC/DSDMAC	mg/kg	10	ND
DHTDMAC	mg/kg	10	ND

Notes:

(1) This test was subcontracted to SGS Shanghai chemical lab.

Bisphenol-A

Test Method : Extraction by organic solvent, analysis was performed by LC/MSMS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Bisphenol-A	mg/kg	1	ND

Triclosan

Test Method: With reference to US EPA 3550C: 2007, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Triclosan	mg/kg	10	ND

Notes:

(1) This test was subcontracted to SGS Shanghai chemical lab.

PVC (Polyvinyl chloride)

Test Method: With reference to ASTM D 2124-99 (Reapproved 2011) ,analysis was performed by FTIR.

<u>Test Item(s):</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Polyvinyl chloride (PVC)	9002-86-2	-	-	Negative



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Notes:

- (1) Negative = Undetectable, Positive = Detectable.
- (2) The test was subcontracted to SGS Shanghai chemical lab.

Hexabromocyclododecane (HBCDD)

Test Method: SGS in house method-TJChemLab-TOP-059 (With reference to US EPA 3550C: 2007、US EPA 8270D:2014), analyzed by GC-MS..

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Polychlorinated Terphenyls (PCTs)

Test Method: SGS in house method - TJChemLab-TOP-043 (With reference to US EPA 3550C: 2007、US EPA8082:2007), analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Aroclor 5432	mg/kg	5	ND
Aroclor 5442	mg/kg	5	ND
Aroclor 5460	mg/kg	5	ND

Notes:

- (1) PCTs Reference Information: Entry 1 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 89/677/EC) Shall not be placed on the market, or used:
 - as substances,
 - In mixtures, including waste oils, or in equipment, in concentrations greater than 50 mg/kg (0,005 % by weight).
 Please refer to Regulation (EC) No 552/2009 to get more detail information

Musketone

Test Method: SGS in house method-TJChemLab-TOP-058 (With reference to US EPA 3550C:2007、US EPA 3540C:1996、US EPA 8270D:2014), analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Musk Ketone	mg/kg	10	ND



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Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

<u>Test Item(s):</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Benzo(a)pyrene (BaP)	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	mg/kg	0.1	ND
Benzo(a)anthracene (BaA)	mg/kg	0.1	ND
Benzo(b)fluoranthene (BbF)	mg/kg	0.1	ND
Benzo(j)fluoranthene (BjF)	mg/kg	0.1	ND
Benzo(k)fluoranthene (BkF)	mg/kg	0.1	ND
Chrysene (CHR)	mg/kg	0.1	ND
Dibenzo(a,h)anthracene (DBA)	mg/kg	0.1	ND
Benzo(g,h,i)perylene (BPE)	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene (IPY)	mg/kg	0.1	ND
Acenaphthylene (ANY)	mg/kg	0.1	ND
Acenaphthene (ANA)	mg/kg	0.1	ND
Fluorene (FLU)	mg/kg	0.1	ND
Phenanthrene (PHE)	mg/kg	0.1	ND
Pyrene (PYR)	mg/kg	0.1	ND
Anthracene (ANT)	mg/kg	0.1	ND
Fluoranthene (FLT)	mg/kg	0.1	ND
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	mg/kg	-	ND
Naphthalene (NAP)	mg/kg	0.1	ND
Sum of 18 PAHs	mg/kg	-	ND



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Client requirements

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children ^{a,b} up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact ^c with skin during the intended or foreseeable use ^d .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Sum of 7 PAHs (Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50



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Note:

^a A "Child" is legally defined as a person before reaching the age of 14 years.

^b Use by children includes both active and passive contact by children.

^c Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No. 1272/2013)

^d According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark: The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Benzotriazole UV Absorbant

Test Method: With reference to US EPA 3550C: 2007, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	001
2-(3,5-Di-tert-butyl-2-hydroxyphenyl) benzotriazole (UV-320) (CAS No: 3846-71-7)	mg/kg	5	ND
2-(3',5'-Di-tert-butyl-2'-hydroxyphenyl)-5-chloro benzotriazole (UV-327) (CAS No: 3864-99-1)	mg/kg	5	ND
2-(2'-hydroxy-3',5'-di-tert- amylphenyl) benzotriazole (UV-328) (CAS No: 25973-55-1)	mg/kg	5	ND
TinUVin 350 (UV-350) (CAS No: 36437-37-3)	mg/kg	5	ND

Notes:

(1) This test was subcontracted to SGS Shanghai chemical lab.

Polychlorinated Biphenyls (PCBs)

Test Method: SGS in house method -TJChemLab-TOP-043 (With reference to US EPA 3550C: 2007、US EPA8082:2007), analyzed by GC-MS.

Test Item(s)	CAS NO	Unit	MDL	001
2,4,4'-Trichlorobiphenyl (PCB 28)	7012-37-5	mg/kg	0.5	ND
2,2'.5.5'-Tetrachloro-biphenyl (PCB 52)	35693-99-3	mg/kg	0.5	ND
2,2'.4.5.5'-Pentachloro-biphenyl (PCB 101)	37680-73-2	mg/kg	0.5	ND
2,3'.4.4'.5-Pentachlorobiphenyl (PCB 118)	31508-00-6	mg/kg	0.5	ND

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2.2'3.4.4'.5'-Hexachloro-biphenyl (PCB 138)	35065-28-2	mg/kg	0.5	ND
2.2'.4.4'.5.5'-Hexachloro-biphenyl (PCB 153)	35065-27-1	mg/kg	0.5	ND
2.2'.3.4.4'.5.5'-Heptachlorobiphenyl (PCB 180)	35065-29-3	mg/kg	0.5	ND

Short Chained Chlorinated Paraffin (SCCP) and Medium-Chained Chlorinated Paraffins (MCCP)

Test Method: With reference to ISO 18219: 2015. Analysis was performed by GC-NCI-MS.

Test Item(s)	Unit	MDL	001
Short Chained Chlorinated Paraffin (SCCP)(C10-C13)	mg/kg	50	ND
Medium-Chained Chlorinated Paraffins (MCCP)(C14-C17)	mg/kg	50	ND

Azo Dyes

Test Method: Colorants: According to EN 14362-1:2012 Annex F- Analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.	Unit	MDL	001
4-Aminobiphenyl	92-67-1	mg/kg	10	ND
Benzidine	92-87-5	mg/kg	10	ND
4-Chlor-o-toluidine	95-69-2	mg/kg	10	ND
2-Naphthylamine	91-59-8	mg/kg	10	ND
o-Aminoazotoluene	97-56-3	mg/kg	10	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	10	ND
4-Chloroaniline	106-47-8	mg/kg	10	ND
4-methoxy-m-phenylenediamine/2,4-Diaminoanisole	615-05-4	mg/kg	10	ND
4,4'-Diaminodiphenylmethane	101-77-9	mg/kg	10	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	10	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	10	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	10	ND
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	10	ND
p-Cresidine	120-71-8	mg/kg	10	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	10	ND

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Test Item(s)	CAS NO.	Unit	MDL	001
4,4'-Oxydianiline	101-80-4	mg/kg	10	ND
4,4'-Thiodianiline	139-65-1	mg/kg	10	ND
o-Toluidine	95-53-4	mg/kg	10	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine	95-80-7	mg/kg	10	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	10	ND
4-aminoazobenzene	60-09-3	mg/kg	10	ND
O-Anisidine	90-04-0	mg/kg	10	ND
2,6 – Xylidine	87-62-7	mg/kg	10	ND
2,4 – Xylidine	95-68-1	mg/kg	10	ND

Notes :

- (1) The EN 14362-1:2012 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg). Otherwise, the test method of EN 14362-3:2012 will be employed to verify the presence of 4-aminoazobenzene.
- (2) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.
- (3) In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.
- (4) In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.
- (5) The test was subcontracted to SGS Qingdao chemical lab.

Phthalates

Test Method: With reference to EN14372: 2004, analysis was performed by GC-MS.

Test Item(s)	CAS NO	Unit	MDL	001
Diisononyl Phthalate (DINP)	28553-12-0/ 68515-48-0	% (w/w)	0.01	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	% (w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/ 68515-49-1	% (w/w)	0.01	ND
Dimethyl Phthalate (DMP)	131-11-3	% (w/w)	0.003	ND



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Diethyl Phthalate (DEP)	84-66-2	% (w/w)	0.003	ND
Dipropyl Phthalate (DPrP)	131-16-8	% (w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	% (w/w)	0.003	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	% (w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	% (w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84-62-8	% (w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-31-9	% (w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	% (w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	% (w/w)	0.01	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	% (w/w)	0.003	ND
Diallyl Phthalate (DAP)	131-17-9	% (w/w)	0.003	ND
n-decyl, n-octyl Phthalate (nDnOP)	119-07-3	% (w/w)	0.003	ND
Di-n-decyl Phthalate (DnDP)	84-77-5	% (w/w)	0.003	ND
Bis(4-methyl-2-pentyl) Phthalate (BMPP)	146-50-9	% (w/w)	0.003	ND
Bis(2-ethoxyethyl) Phthalate (DEEP)	605-54-9	% (w/w)	0.003	ND
Bis(2-n-butoxyethyl) Phthalate (DBEP)	117-83-9	% (w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	605-50-5	% (w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHpp)	71888-89-6	% (w/w)	0.01	ND
Diundecyl Phthalate (DUDP)	3648-20-2	% (w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	84777-06-0	% (w/w)	0.01	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	% (w/w)	0.01	ND
Dibutyl Phthalate (DBP)	84-74-2	% (w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	% (w/w)	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	% (w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	% (w/w)	0.003	ND
Diisononyl adipate (DINA)	33703-08-1	% (w/w)	0.003	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	% (w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DHP)	68515-50-4	% (w/w)	0.01	ND
Bis(2-ethylhexyl) terephthalate (DOTP)	6422-86-2	% (w/w)	0.003	ND
Di(2-ethylhexyl)adipate (DEHA)	103-23-1	% (w/w)	0.003	ND
Di-n-octyl adipate (DNOA)	123-79-5	% (w/w)	0.003	ND
Bis(2-propylheptyl) Phthalate (DP ₂ HP)	53306-54-0	% (w/w)	0.003	ND



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Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic Substances Control Act (TSCA) Section 6(h)

Test Method: With reference to US EPA Method 3550C:2007, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit	MDL	001
Decabromodiphenyl ether (Deca-BDE) ^{Δ1}	1163-19-5	★	mg/kg	5	ND
Phenol, isopropylated phosphate (3:1) (PIP 3:1) ^{Δ2}	68937-41-7	★	mg/kg	5	ND
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP) ^{Δ3}	732-26-3	3000	mg/kg	5	ND
Hexachlorobutadiene (HCBD)	87-68-3	★	mg/kg	5	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	5	ND

Conclusion

PASS

Notes:

1. “★” = Prohibited
2. The regulation is available at the following link.
<https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative-and-toxic-pbt-chemicals-under>
3. ^{Δ1} Plastic for recycling from products or articles containing Deca-BDE.
4. ^{Δ2}: The submitted sample is exempted from the regulated scope if it is anyone of the following:
 - Hydraulic fluids for aviation or military industry;
 - Lubricants and grease;
 - New and replacement parts for motor and aerospace vehicles;
 - Intermediate in a closed system to produce cyanoacrylate adhesive;
 - Specialized engine air filters for locomotive and marine applications;
 - Plastic for recycling from products or articles containing PIP (3:1);
 - Finished products or articles made of plastic recycled from products or articles containing PIP (3:1).
5. ^{Δ3}: The submitted sample is out of the regulated scope if it is not oil or lubricant.



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SVHC

Test Requested: As requested by client, SVHC screening is performed according to:

- (i) Two hundred and nineteen (219) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jul 8, 2021 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.
- (iii) Four (4) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Sep 3, 2021 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method: SGS In-House method- TJChemLab-TOP-004-4, TJChemLab-TOP-061, Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC-DAD/MS and Colorimetric Method.

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. 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):

Test results in this report are based on the tested sample. This report refers to testing result



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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 composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

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

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Potential SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All tested Potential SVHC	-	ND	-

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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 (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.
- (3) * 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.

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

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)).

- (4) ^s 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).
- (5) / = Potential SVHC



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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 (α -HBCDD, β -HBCDD, γ -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



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Batch	No.	Substance Name	CAS No.	RL (%)
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
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*	7789-09-5	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



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Batch	No.	Substance Name	CAS No.	RL (%)
III	34	Sodium chromate*	7775-11-3	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
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*	7789-06-2	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
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
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 hydroxyoctaoxidizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
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
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	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



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Batch	No.	Substance Name	CAS No.	RL (%)
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- <i>o</i> -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- <i>m</i> -phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy- <i>m</i> -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, 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



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Batch	No.	Substance Name	CAS No.	RL (%)
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
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



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Batch	No.	Substance Name	CAS No.	RL (%)
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	<i>o</i> -Aminoazotoluene	97-56-3	0.050
VIII	127	<i>o</i> -Toluidine	95-53-4	0.050
VIII	128	Pentacosafuorotridecanoic 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	Tricosafuorododecanoic 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



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Batch	No.	Substance Name	CAS No.	RL (%)
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*	7632-04-4	0.005



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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-oi-c-acid and its sodium and ammonium salts	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
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" TM) [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) (TMA)	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
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
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	85-01-8	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 $\geq 0.1\%$ 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
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



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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
/	220	Resorcinol	108-46-3	0.050
/	221	(±)-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



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/	222	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
/	223	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
/	224	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050

ATTACHMENT

- | | |
|------------------------------|-------------------------------|
| MQP-11-7-20005-070 | MQP-13-9(-80M)-20063-085 |
| MQP-11-8-20222-070 | MQP-13-9(-80M)-20063-185 |
| MQP-11-8-20222-170 | MQP-13-9(-120M)-20063-083 |
| MQP-14-7.5-20372-070 | MQP-13-9(-150M)-20063-086 |
| MQP-12-5-20092-070 | MQP-AA4-13-9(-80M)-20063-091 |
| MQP-12.5-8.5-20105-070 | MQP-AA4-13-9(-150M)-20063-090 |
| MQP-13-9-10533-070 | MQP-15-7(-60M)-20065-080 |
| MQP-13-9-20023-070 | MQP-15-7(-100M)-20065-081 |
| MQP-13-9-20047-070 | MQP-15-7(-80M)-20065-085 |
| MQP-13-9-20051-070 | MQP-15-7(-80M)-20065-185 |
| MQP-13-9-20011-070 | MQP-15-7(-120M)-20065-083 |
| MQP-13-9-20031-070 | MQP-15-7(-150M)-20065-086 |
| MQP-13-9-20048-070 | MQP-10-7(-60M)-20145-080 |
| MQP-13-9-20060-070 | MQP-10-7(-80M)-20145-085 |
| MQP-13-9-20438-070 | MQP-12-8.5(-80M)-20136-085 |
| MQP-13-9-20063-171 | MQP-12-8.5(-60M)-20144-080 |
| MQP-13-9-20064-070 | MQP-12-8.5(-80M)-20144-085 |
| MQP-13-9-20081-070 | MQP-13-9(-80M)-20143-085 |
| MQP-13-9-20207-070 | MQP-13-9(-80M)-20135-085 |
| MQP-13-9-20367-070 | MQP-15-10(-80M)-20146-085 |
| MQP-14-9-20061-070 | MQP-8-5(-80M)-20159-085 |
| MQP-14-9(-120M)-20061-083 | MQP-8-5(-120M)-20159-083 |
| MQP-14-9(-80M)-20061-085 | MQP-A(-60M) -10179-080 |
| MQP-14-9(-150M)-20061-086 | MQP-A(-80M) -10179-085 |
| MQP-15-7-20065-070 | MQP-A(-120M)-10179-083 |
| MQP-AA4-15-7(-40M)-20065-161 | MQP-A(-150M)-10179-086 |
| MQP-15-7(-120M)-20065-183 | MQP-A(-80M)-10028-085 |
| MQP-15-7-20303-070 | MQP-A(-60M) -10028-080 |
| MQP-6.5-5-20137-070 | MQP-B(-60M)-20052-080 |
| MQP-7-8-20171-070 | MQP-B(-80M)-20052-085 |



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MQP-7-8(-80M)-20171-085	MQP-B(-80M)-20172-085
MQP-7-8(-120M)-20171-083	MQP-B(-80M)-20172-185
MQP-10-7-20145-070	MQP-AA4-B(-80M)-20172-091
MQP-12-8.5-20136-070	MQP-AA4-B(-150M)-20172-090
MQP-12-8.5-20144-070	MQP-B(-80M)-20173-085
MQP-13-9-20143-070	MQP-B(-80M)-20173-185
MQP-13-9-20135-070	MQP-B(+80M)-20173-485
MQP-15-10-20146-070	MQP-B(-120M)-20173-083
MQP-Ce60-20158-070	MQP-B(-150M)-20172-086
MQP-8-5-20159-070	MQP-B(-150M)-20173-086
MQP-Ce35-20170-070	MQP-AA4-B(-170M)-20173-163
MQP-A-10179-070	MQP-AA4-B(-200M)-20173-162
MQP-A-10028-070	MQP-AA4-B(-80M)-20173-091
MQP-B-20052-070	MQP-AA4-B(-150M)-20173-090
MQP-15-10-20450-070	MQP-B(-150M)-20052-086
MQP-B-20076-070	MQP-B(-60M)-20076-080
MQP-B(-80M)-20076-085	MQP-B(-80M)-20076-085
MQP-B(-120M)-20076-083	MQP-B(-80M)-20076-185
MQP-B-20172-070	MQP-B(-150M)-20076-086
MQP-B-20314-070	MQP-B(-170M)-20076-131
MQP-B+-20444-070	MQP-AA4-A(-80M)-10179-091
MQP-B+(-150M)-20444-086	MQP-AA4-B(-150M)-20052-090
MQP-B-20173-070	MQP-AA4-B(-80M)-20052-091
MQP-B-20464-070	MQP-AA4-B(-150M)-20076-090
MQP-B+-20441-070	MQP-AA4-8-5(-80M)-20159-091
MQP-B+(-120M)-20441-083	MQP-AA4-12.5-8.5(-80M)-20105-091
MQP-AA4-B+(-120M)-20441-164	MQP-AA4-13-9(-150M)-20011-090
MQP-AA4-B+(-150M)-20441-090	MQP-AA4-15-7(-150M)-20065-090
MQFP-B+(D50=5 microns)-20441-089	MQP-AA4-15-7(-80M)-20065-091
MQP-B-20299-070	MQP-AA4-15-7(-150M)-20065-093
MQP-B(-80M)-20299-085	MQP-AA4-15-7(-200M)-20065-160
MQP-B(-80M)-20299-185	MQFP-B(D50=5 microns)-20076-089
MQU-E-20074-070	MQFP-B(D50=2microns)-20076-084
MQU-13-20079-070	MQFP-B(D50=25 microns)-20076-088
MQU-15-20080-070	MQFP-B(D50=15microns)-20076-087
MQU-E-20085-070	MQFP-11-8(D50=5 microns)-20222-089
MQP-12-5(-150M)-20092-086	MQFP-12-5(D50=5 microns)-20092-089
MQP-12.5-8.5(-80M)-20105-085	MQFP-12-5(D50=15 microns)-20092-087
MQP-12.5-8.5(-120M)-20105-083	MQFP-12-5(D50=2microns)-20092-084
MQP-13-9(-80M)-20048-085	MQFP-12-5(D50=7microns)-20092-150



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MQP-13-9(-60M)-20081-080	MQFP-12-5(D50=10microns)-20092-151
MQP-13-9(-80M)-20081-085	MQFP-15-7(D50=15microns)-20065-087
MQP-13-9(-80M)-20081-185	MQFP-15-7(D50=5 microns)-20065-089
MQP-13-9(-120M)-20081-083	MQFP-15-7(D50=25 microns)-20065-088
MQP-13-9(-150M)-20081-086	MQFP-13-9(D50=25microns)-20063-088
MQP-13-9(-80M)-10533-085	MQFP-13-9(D50=15microns)-20063-087
MQP-13-9(-60M)-20011-080	MQFP-13-9(D50=5microns)-20063-089
MQP-13-9(-80M)-20011-085	MQFP-13-9(D50=5 microns)-20143-089
MQP-13-9(-150M)-20011-086	MQFP-B(D50=5microns)-20052-089
MQP-13-9(-60M)-20031-080	MQFP-B(D50=5microns)-20172-089
MQP-13-9(-60M)-20063-080	MQFP-B(D50=5microns)-20173-089
MQP-15-7-10271-070	MQP-B+(-60M)-20056-080
MQP-15-7-20045-070	MQP-B+(-80M)-20056-085
MQP-B-20049-070	MQP-B+(-150M)-20056-086
MQP-B-20066-070	MQP-B+(-120M)-20056-083
MQP-B+-20056-070	MQP-B+(-60M)-20028-080
MQP-B+-10118-070	MQP-B+(-60M)-10215-080
MQP-17-9-20440-070	MQP-B+(-80M)-10215-085
MQP-17-9(-120M)-20440-083	MQP-B+(-120M)-10215-083
MQP-17-9(-150M)-20440-086	MQP-B+(-150M)-10215-086
MQP-17-9(-80M)-20440-085	MQP-B+ (-180M)-10215-130
MQP-AA4-17-9(-80M)-20440-091	MQP-B(-60M)-10184-080
MQFP-17-9(D50=25microns)-20440-088	MQP-B(-80M)-10184-085
MQFP-17-9(D50=15microns)-20440-087	MQP-B(-100M)-10184-081
MQP-B+-20028-070	MQP-B(-150M)-10184-086
MQP-B+-20443-070	MQP-B (-80M)-20046-085
MQP-B+-20364-070	MQP-B (-80M)-20049-085
MQP-B+(-120M)-20364-083	MQP-15-7(-150M)-10271-086
MQP-B+(-80M)-20364-085	MQP-AA4-B+(-150M)-20056-090
MQP-B+(-150M)-20364-086	MQP-AA4-B+(-80M)-20056-091
MQP-C-20006-070	MQP-AA4-B+(-80M)-10215-091
MQP-B-10184-070	MQP-AA4-B+(-150M)-10215-093
MQP-B-20021-070	MQFP-B(D50=5 microns)-20029-089
MQP-B-20030-070	MQFP-B(D50=5 microns)-10184-089
MQP-B-20046-070	MQFP-B+(D50=15 microns)-20056-087
MQP-B-20216-070	MQFP-B+(D50=25microns)-20056-088
MQP-AA4-B(-150M)-20029-090	MQFP-B+(D50=5microns)-20056-089
MQP-15-7(-60M)-20045-080	MQFP-B+(D50=25microns)-10215-088
MQP-B(-60M)-20029-080	MQFP-B+(D50=17microns)-10215-153
MQP-B(-80M)-20029-085	MQFP-B+(D50=5microns)-10215-089



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MQP-B(-150M)-20029-086	MQP-B-20029-070
MQP-16-7-11277-070	MQP-14-12(-150M)-20482-086
MQP-16-7-20054-070	MQP-14-13(-80M)-20201-085
MQP-16-7(-80M)-20054-085	MQP-14-13(-120M)-20201-083
MQP-16-7-20068-070	MQP-16-7 (-60M)-20068-080
MQP-16-7(-120M)-20068-083	MQP-16-7(-80M)-20068-085
MQP-16-7(-150M)-20068-086	MQP-O(-100M)-20057-081
MQP-16-7(-80M)-20498-085	MQP-O(-90M)-20057-082
MQP-O-20057-070	MQP-O(-80M)-20057-085
MQP-O-20043-070	MQP-O(-150M)-20057-086
MQP-14-12+-20059-070	MQP-AA4-14-12 (-150M) -20000-090
MQP-14-12-20465-070	MQP-AA4-14-12(-80M) -20000-091
MQP-15-12-20439-070	MQP-AA4 -14-12(-60M)-20000-092
MQP-AA4-15-12(-150M)-20439-090	MQP-AA4-14-13(-80M)-20201-091
MQFP-15-12(D50=15 microns)-20439-087	MQP-AA4-14.5-13(-80M)-20202-091
MQFP-15-12(D50=25microns)-20439-088	MQP-AA4-14-12(-40M)-20000-161
MQP-14-12-20304-070	MQP-AA4-14-12(-120M)-20000-164
MQP-14-12(-80M)-20304-085	MQP-AA4 -16-7(-150M)-20068-093
MQP-14-14-20430-070	MQP-AA4-16-7(-80M)-20068-091
MQP-14-13-20201-070	MQFP-16-7(D50=5 microns)-20068-089
MQP-14-13(-150M)-20201-086	MQFP-16-7(D50=15microns)-20068-087
MQP-14.5-13-20202-070	MQFP-16-7(D50=5microns)-11277-089
MQP-13-14-20203-070	MQFP-O(D50=5microns)-20057-089
MQP-13-14(-80M)-20203-085	MQFP-O(D50=25microns)-20057-088
MQP-14-12(-60M)-20000-080	MQFP-14-12(D50=5microns)-20000-089
MQP-14-12(-100M)-20000-081	MQFP-14-12(D50=15Microns)-20000-087
MQP-14-12(+80M)-20000-485	MQFP-14-12(D50=5microns)-20000-152
MQP-14-12(-80M)-20000-085	MQFP-14-12(D50=35microns)-20000-154
MQP-14-12(-90M)-20000-082	MQFP-14-12(D50=45microns)-20000-155
MQP-14-12(-120M)-20000-083	MQFP-14-13(D50=5microns)-20201-089
MQP-14-12(-150M)-20000-086	MQFP-14-12(D50=25microns)-20000-088
MQFP-14-13(D50=25microns)-20201-088	MQP-14-12-20562-070
MQP-12-7(-80M)-20563-085	MQP-14-12-20000-070
MQP-12-8HD-20175-070	MQP-15-9HD(-90M)-20178-082
MQP-12-8HD(-100M)-20175-081	MQP-15-9HD(-120M)-20178-083
MQP-12-8HD(-80M)-20175-085	MQP-15-9HD(-150M)-20178-086
MQP-12-8HD(-80M)-20175-185	MQP-AA4-15-9HD(-80M)-20178-091
MQP-12-8HD(-120M)-20175-083	MQP-16-9HD-20177-070
MQP-12-8HD(-120M)-20526-083	MQP-16-9HD(-120M)-20177-083
MQP-12-8HD(-120M)-20535-083	MQP-16-9HD(-80M)-20177-085



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MQP-6-8HD(-120M)-20507-083	MQP-AA4-16-9HD(-80M)-20177-091
MQP-11-8HD(-120M)-20509-083	MQP-10-11HD(-150M)-20402-086
MQP-12-10HD-20352-070	MQP-10-11HD(-80M)-20402-085
MQP-13-9HD-20179-070	MQP-10-11HD-20402-070
MQP-13-9HD(-60M)-20179-080	MQP-10-9.5HD(-150M)-20403-086
MQP-13-9HD(-80M)-20179-085	MQP-10-9.5HD(-80M)-20403-085
MQP-13-9HD(-80M)-20179-185	MQP-10-9.5HD-20403-070
MQP-13-9HD(-120M)-20179-083	MQP-10.5-12HD-20379-070
MQP-13-9HD-20371-070	MQP-12.5-11HD-20417-070
MQP-13-9HD(-120M)-20371-083	MQP-13-8.5HD(-120M)-20378-083
MQP-13-9HD(-150M)-20371-086	MQP-13-8.5HD(-150M)-20378-086
MQP-AA4-13-9HD(-80M)-20179-091	MQP-9-6.5HD(-120M)-20463-083
MQP-14-12HD-20368-070	MQP-9-6.5HD(-80M)-20463-085
MQP-15-9HD-20305-070	MQP-9-6.5HD-20463-070
MQP-15-9HD-20442-070	MQP-8-6.5HD(-120M)-20508-083
MQP-15-9HD(-80M)-20442-085	MQP-13.5-10.5HD-20481-070
MQP-15-9HD-20429-070	MQP-15-10HD-20545-070
MQP-15-9HD(-80M)-20429-085	MQP-15-9HD-20561-070
MQP-15-9HD(-120M)-20429-083	MQP-9-8.5HD-20404-070
MQP-15-9HD(-120M)-20305-083	MQP-9-8.5HD(-80M)-20404-085
MQP-15-9HD(-80M)-20305-085	MQP-10-8.5HD-20180-070
MQP-15-9HD(-90M)-20305-082	MQP-10-8.5HD-20180-170
MQP-15-9HD(-150M)-20305-086	MQP-10-8.5HD(-90M)-20180-082
MQP-15-9HD(-80M)-20305-185	MQFP-10-8.5HD(D50=5 microns)-20180-089
MQFP-15-9HD(D50=25 microns)-20305-088	MQP-10-8.5HD(-120M)-20180-083
MQP-15-9HD(-80M)-20178-085	MQP-10-8.5HD(-80M)-20180-085
MQP-15-9HD(-100M)-20178-081	MQP-10-8.5HD(-150M)-20180-086
MQP-15-9HD(-80M)-20561-085	MQP-15-9HD(-150M)-20561-086
MQP-9-6HD(-80M)-20564-085	MQP-15-9HD-20178-070
MQU-F-10131-070	MQU-SD-6-20370-070
MQU-F-20070-070	MQU-G-20335-070
MQP-F-20070-170	MQU-G-20517-070
MQFP-F(D50=25microns)-20070-088	MQU-78A-20294-070
MQFP-F(D50=5microns)-20070-089	MQU-β2-20295-070
MQU-G-20071-070	MQU-β2-20558-070
MQU-G-20002-070	MQU-78I-20296-070
MQU-H-10450095	MQU-78J-20301-070
MQU-H-20075-070	MQU-78K-20302-070



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MQU-F-20515-070	MQU-β10-20338-070
MQU-G-20518-070	MQU-β11-20445-070
MQU-G-20082-170	MQU-β12-20560-070
MQU-G35rev1-20310-070	MQU-Krev-5-20446-070
MQU-K2-20311-070	MQU-Krev-6-20447-070
MQU-G35rev3-20312-070	MQU-K33-3-20448-070
MQU-G35rev4-20313-070	MQU-K33-4-20449-070
MQU-G-20083-070	MQU-ND43SHR-20123-070
MQU-F-20084-070	MQU-ND43SHR-20169-070
MQU-F-20514-070	MQU-ND43SHR-M-20160-070
MQU-F-20086-070	MQU-110-20380-070
MQU-F-20120-070	MQU-111-20381-070
MQU-G-20121-070	MQU-112-20382-070
MQU-F-20122-070	MQU-113-20383-070
MQU-F1S-20298-070	MQU-114-20384-070
MQU-F-20491-070	MQU-115-20385-070
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MQU-L-20087-070	MQU-117-20387-070
MQU-L-20073-070	MQU-118-20388-070
MQU-M-20181-070	MQU-119-20389-070
MQU-M-20466-070	MQU-120-20390-070
MQU-M-20308-070	MQU-121-20391-070
MQU-Mrev2-20309-070	MQU-122-20392-070
MQU-M04-20215-070	MQU-123-20393-070
MQA-G(-20M)-20071-061	MQU-124-20394-070
MQA-F(-20M)-20070-061	MQU-125-20395-070
MQA-F(-100M)-20070-062	MQU-126-20396-070
MQA-F(-100M)-20070-064	MQU-127-20397-070
MQU-25-20093-070	MQU-128-20398-070
MQU-26-20100-070	MQU-129-20418-070
MQU-28-20101-070	MQU-K32-20406-070
MQU-29-20102-070	MQU-K33-20407-070
MQU-30-20103-070	MQU-Mrev2A-20415-070
MQU-31-20104-070	MQU-Mrev2B-20416-070
MQU-27-20106-070	MQU-SD-7-20408-070
MQU-33-20107-070	MQU-SD-8-20409-070
MQU-34-20108-070	MQU-SD-9-20410-070
MQU-35-20109-070	MQU-Mrev2C-20422-070



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MQU-37-20111-070	MQU-Mrev2E-20424-070
MQU-38-20112-070	MQU-Mrev2F-20425-070
MQU-39-20129-070	MQU-Mrev2G-20426-070
MQU-40-20130-070	MQU-LowTRE1-20427-070
MQU-41-20131-070	MQU-LowTRE2-20428-070
MQU-42-20132-070	MQU-Mrev2-20431-070
MQU-43-20133-070	MQU-LowTRE3-20432-070
MQU-44-20134-070	MQU-LowTRE4-20433-070
MQU-45-20147-070	MQU-Krev2-20434-070
MQU-46-20148-070	MQU-Krev3-20435-070
MQU-47-20149-070	MQU-Krev4-20436-070
MQU-48-20150-070	MQU-K33-2-20437-070
MQU-49-20151-070	MQU-TDK-1-20451-070
MQU-50-20152-070	MQU-129B-20452-070
MQU-51-20153-070	MQU-129C-20453-070
MQU-52-20154-070	MQU-129D-20454-070
MQU-53-20155-070	MQU-129E-20455-070
MQU-54-20156-070	MQU-129E(-20M)-20455-035
MQU-55-20157-070	MQU-129F-20456-070
MQU-56-20161-070	MQU-129G-20457-070
MQU-57-20162-070	MQU-M-20459-070
MQU-58-20163-070	MQU-M2-20460-070
MQU-59-20164-070	MQU-G35(K)rev-20461-070
MQU-60-20165-070	MQU-M-20462-070
MQU-61-20166-070	MQU-129H-20468-070
MQU-62-20167-070	MQU-129I-20469-070
MQU-63-20168-070	MQU-113B-20470-070
MQU-64-20174-070	MQU-130A-20471-070
MQU-α1-20182-070	MQU-130B-20472-070
MQU-α1-20557-070	MQU-131A-20473-070
MQU-α2-20183-070	MQU-131A(-20M)-20473-035
MQU-α2-20519-070	MQU-131B-20474-070
MQU-α3-20184-070	MQU-131B(-20M)-20474-035
MQU-α3-20520-070	MQU-131C-20475-070
MQU-68-20185-070	MQU-131C(-20M)-20475-035
MQU-69-20186-070	MQU-132B-20476-070
MQU-70-20187-070	MQU-132B(-20M)-20476-035
MQU-71-20188-070	MQU-Mrev.4-Ce5%-20477-070
MQU-72-20189-070	MQU-Mrev.4-Ce10%-20478-070



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MQU-67A-20272-070	MQA-39-15(D50=15microns)-20506-230
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MQU-78H-20274-070	MQA-37-18(-80M)-20500-188
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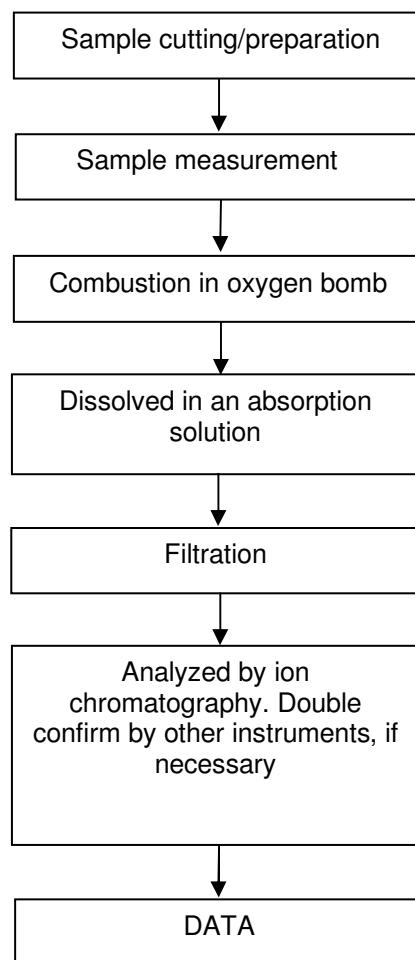
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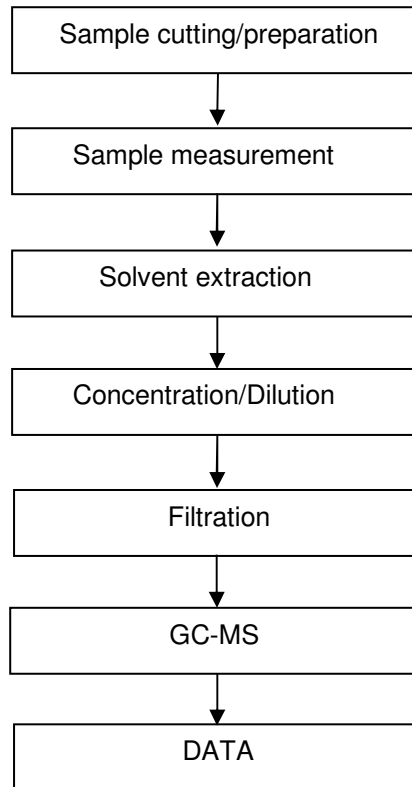
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Halogen Testing Flow Chart



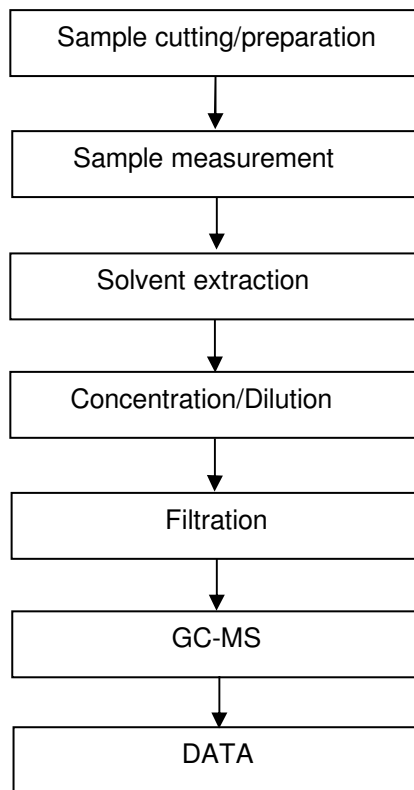
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Phthalate Testing Flow Chart



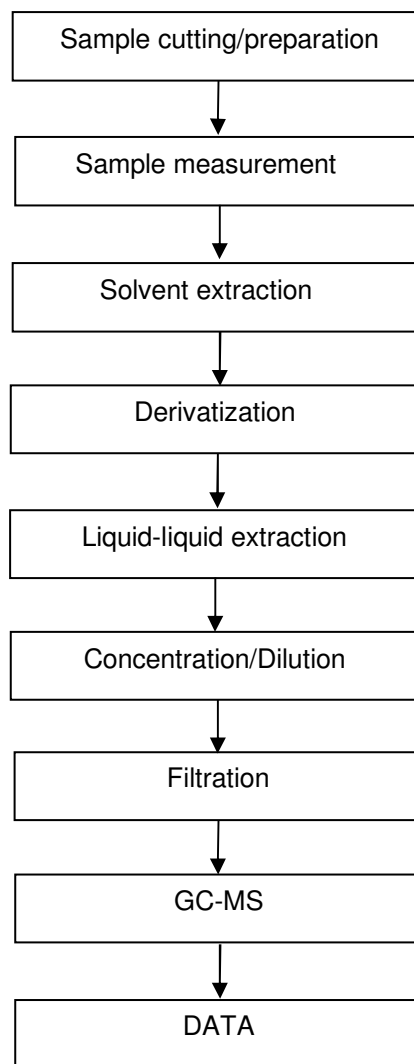
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PAHs Testing Flow Chart



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TBBP-A Testing Flow Chart

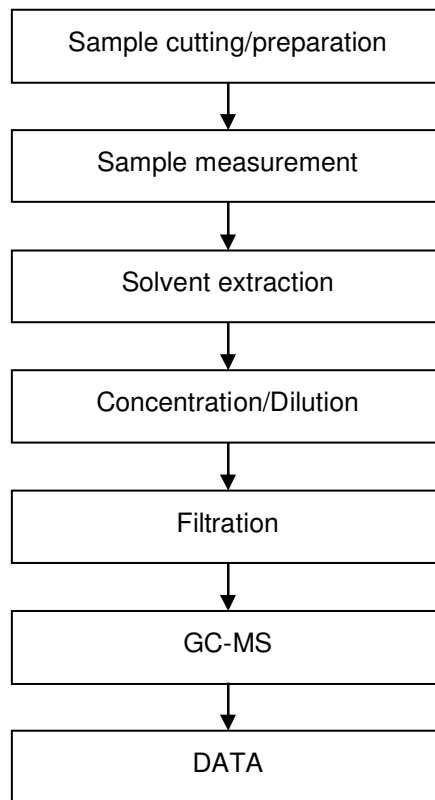


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DMF (Dimethyl fumarate) Testing Flow Chart



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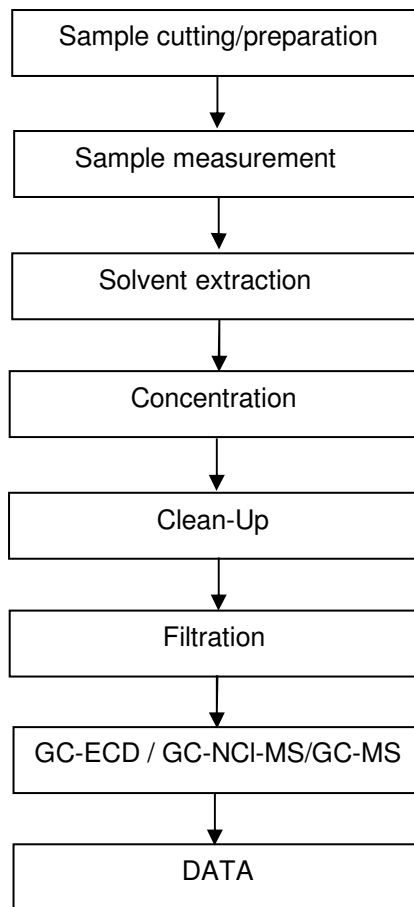
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Chlorinated Paraffin Testing Flow Chart



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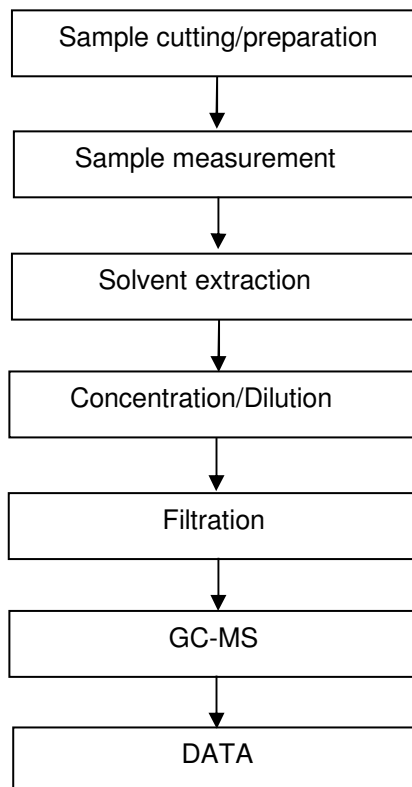
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HBCDD Testing Flow Chart



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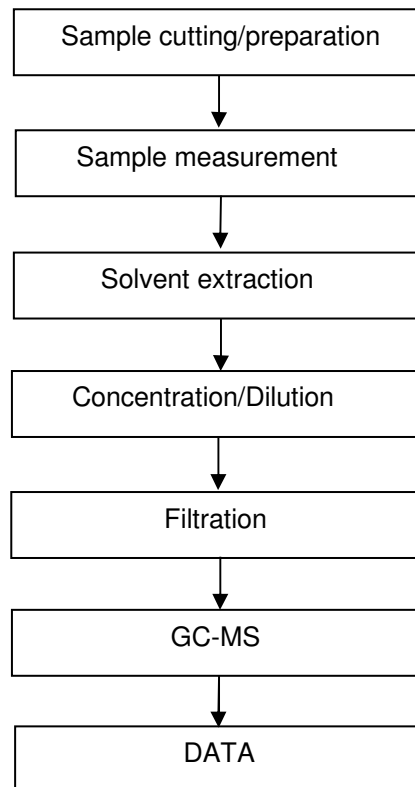
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Musk Ketone Testing Flow Chart



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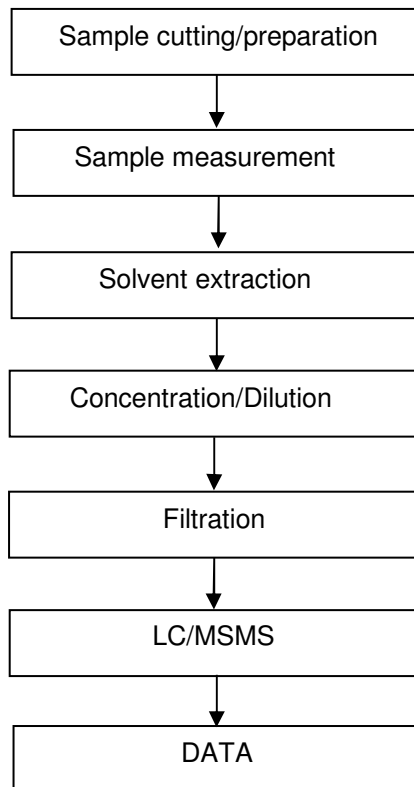
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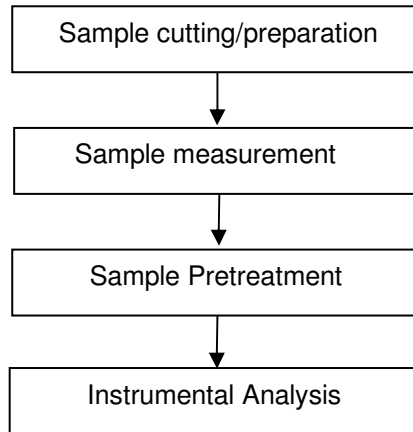
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PFOS/PFOA Testing Flow Chart



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SVHC Testing Flow Chart



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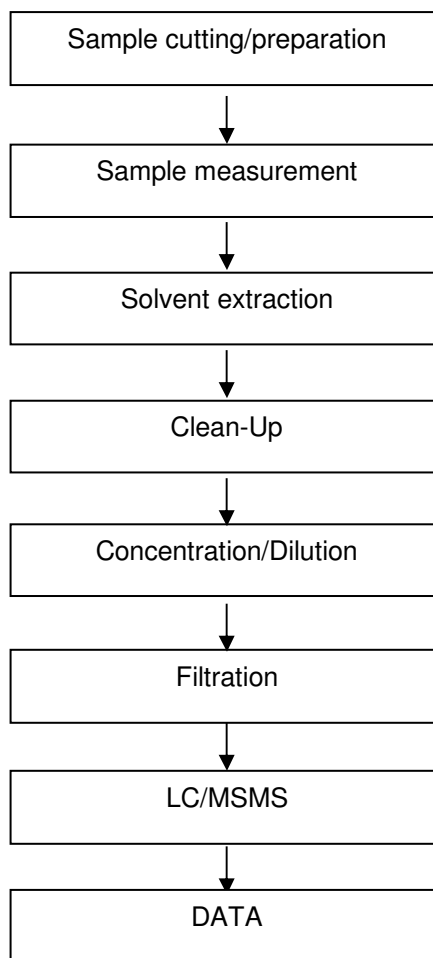
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BPA Testing Flow Chart



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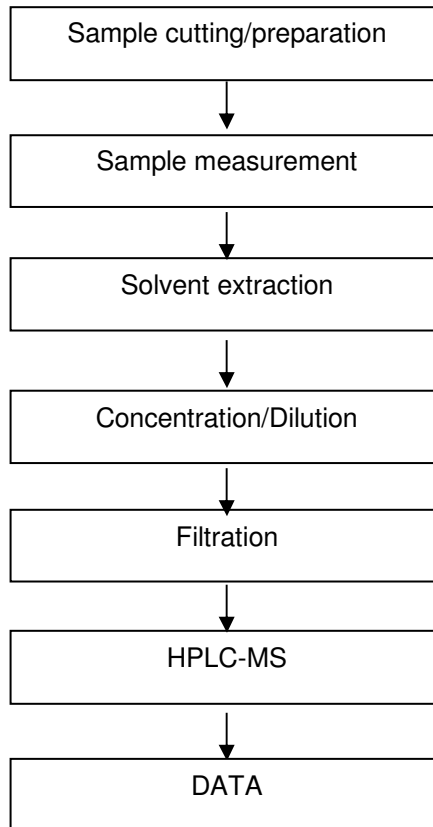
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NP / OP Testing Flow Chart



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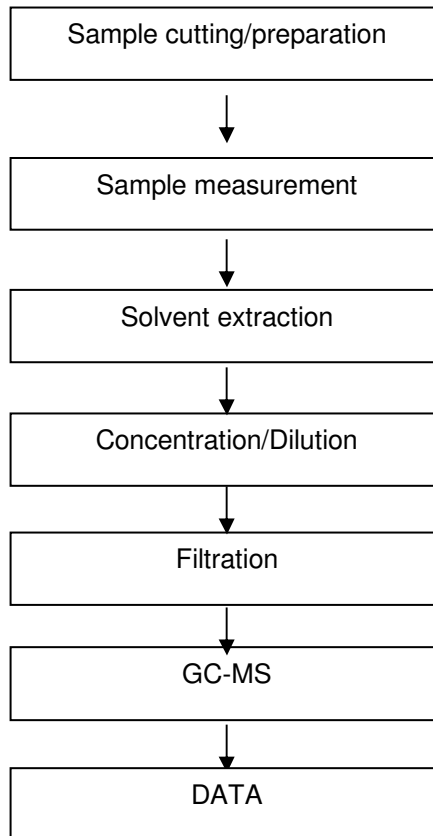
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PCB/PCT/PCN Testing Flow Chart

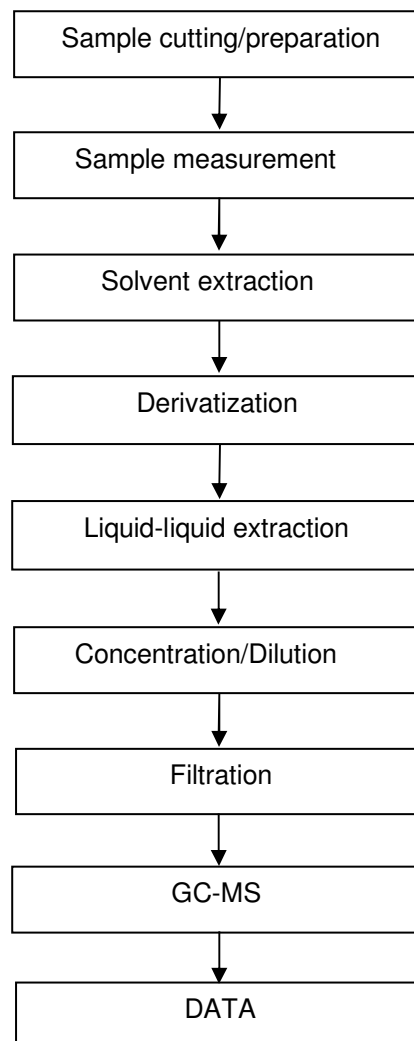


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Organic-tin Testing Flow Chart

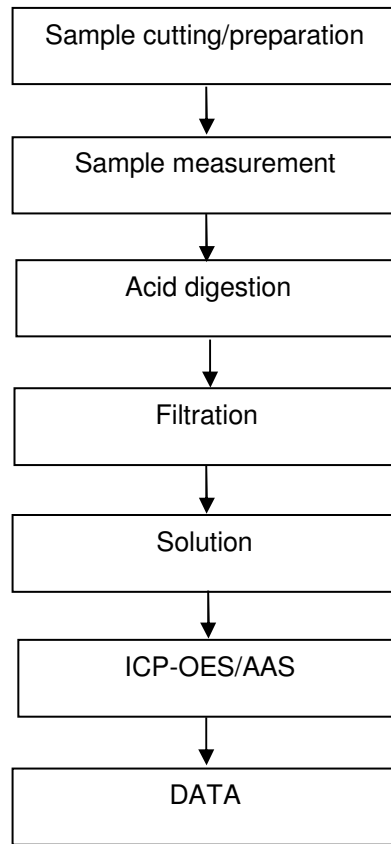


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Elementary Testing Flow Chart

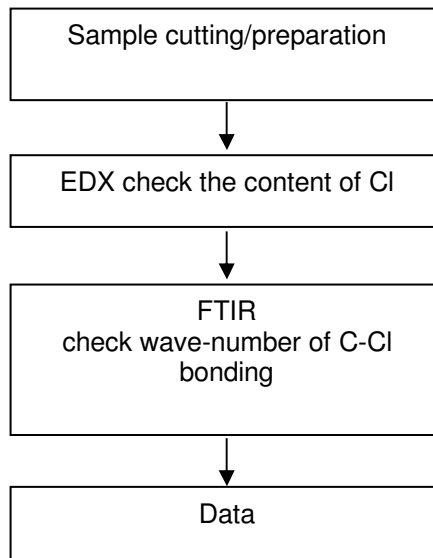


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PVC Testing Flow Chart



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