



Test Report

Report No. A2220047963103

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Company Name HUIZHOU YIRUN SILICONE CO.,LTD
show on Report
Address 7TH BUILDING DONGTAIHENG INDUSTRIAL DISTRICT XINYU HUIYANG
AREA HUIZHOU CITY GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name silicone
Part No. 866AH, 399-3,866B-2
Test Requested ZDHC Manufacturing Restricted Substances List Version 2.0
Sample Received Date Feb. 22, 2022
Testing Period Feb. 22, 2022 to Feb. 28, 2022

Test Conducted:

As requested by the applicant, for details refer to next page(s)



Hill Zheng

Hill Zheng
Technical Manager
Feb. 28, 2022

No. S492421018

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District,
Shenzhen City, Guangdong Province, P.R. China

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<u>Summary of Test Result(s)</u>		
Test Item(s)	Test Standard	Test Result/Conclusion
Alkylphenol	EN ISO 21084:2019	PASS
Alkylphenol Ethoxylates	EN ISO 18254-1:2016	PASS
Glycols	Refer to US EPA 3550C:2007 & US EPA 8321B:2007	PASS
Halogenated Solvents	Refer to US EPA 3550C:2007 & US EPA 8270E:2018	PASS
Organotin compounds	Solvent extraction, GC MS, ISO TS 16179	PASS
Phthalates	CPSC-CH-C1001-09.4	PASS
Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2019:01 PAK	PASS
Total heavy metal content	Refer to US EPA A 3052:1996 & US EPA 6010D:2018	PASS
Volatile Organic Compounds(VOC)	Refer to US EPA 3550C:2007 & US EPA 8270E:2018	PASS
Chlorinated paraffins	prEN ISO 22699-2	PASS
<p>*****For Further Details, Please Refer to the Following Page(s) *****</p> <p>***Note: "--" means not applicable in report. ***</p>		

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Tests Conducted (As Requested by the Client)

1 Alkylphenol (EN ISO 21084:2019)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Nonylphenol(NP)	25154-52-3	N.D.	10	≤250
2	Octylphenol(OP)	140-66-9	N.D.	10	≤250

2 Alkylphenol Ethoxylates (EN ISO 18254-1:2016)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Nonylphenol Ethoxylate(NPEOs)	68412-54-4/ 9016-45-9	N.D.	50	≤500
2	Octylphenol Ethoxylate(OPEOs)	9002-93-1	N.D.	50	≤500

3 Glycols (Refer to US EPA 3550C:2007 & US EPA 8321B:2007)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Bis(2-methoxyethyl)ether	111-96-6	N.D.	50	≤50
2	2-Ethoxyethanol	110-80-5	N.D.	50	≤50
3	2-Ethoxyethyl acetate	111-15-9	N.D.	50	≤50
4	Ethylene glycol dimethyl ether	110-71-4	N.D.	50	≤50
5	2-Methoxyethanol	109-86-4	N.D.	50	≤50
6	2-Methoxyethyl acetate	110-49-6	N.D.	50	≤50
7	2-Methoxypropyl acetate	70657-70-4	N.D.	50	≤50
8	1,2-bis(2-methoxyethoxy) ethane	112-49-2	N.D.	50	≤50

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4 Halogenated Solvents (Refer to US EPA 3550C:2007 & US EPA 8270E:2018)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	1,2-Dichloroethane	107-06-2	N.D.	5	≤5
2	Dichloromethane	75-09-2	N.D.	5	≤5
3	Trichloroethylene	79-01-6	N.D.	5	≤40
4	Tetrachloroethylene	127-18-4	N.D.	5	≤5
5	α-chlorotoluene	100-44-7	N.D.	5	≤5

5 Organotin compounds (Solvent extraction, GC MS, ISO TS 16179)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Monobutyltin(MBT)	1118-46-3	N.D.	0.05	≤5
2	Dibutyltin(DBT)	683-18-1	N.D.	0.05	≤20
3	Tributyltin(TBT)	1461-22-9	N.D.	0.05	≤5
4	Tetrabutyltin(TeBT)	1461-25-2	N.D.	0.05	≤1
5	Triphenyltin(TPHT)	639-58-7	N.D.	0.05	≤5
6	Trimethyltin(TMT)	1066-45-1	N.D.	0.05	≤5
7	Monooctyltin(MOT)	3091-25-6	N.D.	0.05	≤5
8	Diocetyl tin(DOT)	3542-36-7	N.D.	0.05	≤5
9	Triocetyl tin(TOT)	2587-76-0	N.D.	0.05	≤5
10	Tetraocetyl tin(TeOT)	3590-84-9	N.D.	0.05	≤1
11	Tricyclohexyltin(TCyT)	3091-32-5	N.D.	0.05	≤1
12	Dimethyltin(DMT)	753-73-1	N.D.	0.05	≤5
13	Monophenyltin(MPhT)	1124-19-2	N.D.	0.05	≤5
14	Diphenyltin(DPhT)	1135-99-5	N.D.	0.05	≤5
15	Dipropyltin(DPrT)	867-36-7	N.D.	0.05	≤5
16	Tripropyltin(TPrT)	2279-76-7	N.D.	0.05	≤1
17	MonoMethyltin(MeT)	993-16-8	N.D.	0.05	≤5
18	Tetraethyltin(TeET)	597-64-8	N.D.	0.05	≤1

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6 Phthalates (CPSC-CH-C1001-09.4)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Dibutyl phthalate(DBP)	84-74-2	N.D.	30	--
2	Butyl benzyl phthalate(BBP)	85-68-7	N.D.	30	--
3	Di-(2-ethylhexyl) phthalate(DEHP)	117-81-7	N.D.	30	--
4	Di-n-octyl phthalate(DNOP)	117-84-0	N.D.	30	--
5	Di-isononyl phthalate(DINP)	28553-12-0, 68515-48-0	N.D.	50	--
6	Di-iso-decyl phthalate(DIDP)	26761-40-0, 68515-49-1	N.D.	50	--
7	Diethyl phthalate(DEP)	84-66-2	N.D.	30	--
8	Dipropyl phthalate(DPrP)	131-16-8	N.D.	30	--
9	Diisobutyl phthalate(DIBP)	84-69-5	N.D.	30	--
10	Dipentyl phthalate(DPP)	131-18-0	N.D.	30	--
11	Dicyclohexyl phthalate(DCHP)	84-61-7	N.D.	30	--
12	Diisooctyl phthalate(DIOP)	27554-26-3	N.D.	50	--
13	Dinonyl phthalate(DNP)	84-76-4	N.D.	30	--
14	Di-n-hexyl phthalate(DNHP)	84-75-3	N.D.	30	--
15	Bis(2-methoxyethyl) phthalate(DMEP)	117-82-8	N.D.	30	--
16	Diisopentylphthalate(DIPP)	605-50-5	N.D.	30	--
17	1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters(DHNUP)	68515-42-4	N.D.	50	--
18	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich(DIHP)	71888-89-6	N.D.	50	--
19	Sum of Phthalates	--	N.D.	--	≤250

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7 Polycyclic Aromatic Hydrocarbons (PAHs) (AfPS GS 2019:01 PAK)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Naphthalene	91-20-3	N.D.	0.2	--
2	Phenanthrene	85-01-8	N.D.	0.2	--
3	Anthracene	120-12-7	N.D.	0.2	--
4	Fluoranthene	206-44-0	N.D.	0.2	--
5	Pyrene	129-00-0	N.D.	0.2	--
6	Chrysene	218-01-9	N.D.	0.2	--
7	Benzo(a)anthracene	56-55-3	N.D.	0.2	--
8	Benzo(b)fluoranthene	205-99-2	N.D.	0.2	--
9	Benzo(k)fluoranthene	207-08-9	N.D.	0.2	--
10	Benzo(j)fluoranthene	205-82-3	N.D.	0.2	--
11	Benzo(a)pyrene	50-32-8	N.D.	0.2	≤20
12	Benzo(e)pyrene	192-97-2	N.D.	0.2	--
13	Dibenzo(a,h)anthracene	53-70-3	N.D.	0.2	--
14	Benzo(g,h,i)perylene	191-24-2	N.D.	0.2	--
15	Indenol(1,2,3-cd)pyrene	193-39-5	N.D.	0.2	--
16	Acenaphthene	83-32-9	N.D.	0.2	--
17	Fluorene	86-73-7	N.D.	0.2	--
18	Acenaphthylene	208-96-8	N.D.	0.2	--
19	Sum of PAHs	--	N.D.	--	≤200

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8 Total heavy metal content (Refer to US EPA 3052:1996 & US EPA 6010D:2018)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Antimony(Sb)	7440-36-0	N.D.	5	--
2	Copper(Cu)	7440-50-8	N.D.	2	--
3	Arsenic(As)	7440-38-2	N.D.	10	≤50
4	Lead(Pb)	7439-92-1	N.D.	2	≤100
5	Mercury(Hg)	7439-97-6	N.D.	2	≤4
6	Cadmium(Cd)	7440-43-9	N.D.	2	≤20
7	Cobalt(Co)	7440-48-4	N.D.	2	--
8	Chromium(Cr)	7440-47-3	N.D.	2	--
9	Barium(Ba)	7440-39-3	N.D.	2	--
10	Selenium(Se)	7782-49-2	N.D.	5	--
11	Nickel(Ni)	7440-02-0	N.D.	2	--
12	Silver(Ag)	7440-22-4	N.D.	10	--
13	Tin(Sn)	7440-31-5	N.D.	10	--

9 Volatile Organic Compounds(VOC) (Refer to US EPA 3550C:2007 & US EPA 8270E:2018)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Benzene	71-43-2	N.D.	1	≤50
2	p-Cresol	106-44-5	N.D.	10	≤500
3	m-Cresol	108-39-4	N.D.	10	≤500
4	o-Cresol	95-48-7	N.D.	10	≤500
5	Xylene	1330-20-7	N.D.	10	≤500

10 Chlorinated paraffins (prEN ISO 22699-2)

Code	Tested Item(s)	CAS No.	Test Result (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
			001		
1	Short Chain Chlorinated Paraffins(SCCPs)	85535-84-8	N.D.	50	≤50
2	Middle Chain Chlorinated Paraffins(MCCPs)	85535-85-9	N.D.	50	≤500

Remark: -MDL = Method Detection Limit
 -N.D. = Not Detected (<MDL)
 -mg/kg = ppm = parts per million

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List of ZDHC

Items	NO	Substance Name	CAS NO.
Alkylphenol	1	Nonylphenol(NP)	25154-52-3
	2	Octylphenol(OP)	140-66-9
Alkylphenol Ethoxylates	1	Nonylphenol Ethoxylate(NPEOs)	68412-54-4/ 9016-45-9
	2	Octylphenol Ethoxylate(OPEOs)	9002-93-1
Ortho-phenylphenol	1	Ortho-phenylphenol(OPP)	90-43-7
Permethrine	1	Permethrine (cis/ trans)	52645-53-1
Triclosan	1	Triclosan	3380-34-5
Chlorobenzenes and chlorinated toluenes	1	Chlorobenzene	108-90-7
	2	1,2-Dichlorobenzene	95-50-1
	3	1,3-Dichlorobenzene	541-73-1
	4	1,4-Dichlorobenzene	106-46-7
	5	1,2,3-Trichlorobenzene	87-61-6
	6	1,2,4-Trichlorobenzene	120-82-1
	7	1,3,5-Trichlorobenzene	108-70-3
	8	1,2,3,5-Tetrachlorobenzene	634-90-2
	9	1,2,4,5-Tetrachlorobenzene	95-94-3
	10	1,2,3,4-Tetrachlorobenzene	634-66-2
	11	Pentachlorobenzene	608-93-5
	12	Hexachlorobenzene	118-74-1
	13	2-Chlorotoluene	95-49-8
	14	3-Chlorotoluene	108-41-8
	15	4-Chlorotoluene	106-43-4
	16	α -chlorotoluene	100-44-7
	17	2,3-Dichlorotoluene	32768-54-0
	18	2,4-Dichlorotoluene	95-73-8
	19	2,5-Dichlorotoluene	19398-61-9
	20	2,6-Dichlorotoluene	118-69-4
	21	3,4-Dichlorotoluene	95-75-0
	22	2,3,6-Trichlorotoluene	2077-46-5
	23	2,4,5-Trichlorotoluene	6639-30-1
	24	α,α,α -trichlorotoluene	98-07-7
	25	$\alpha,\alpha,\alpha,4$ -tetrachlorotoluene	5216-25-1
	26	2,3,4,5-tetrachlorotoluene	1006-32-2
	27	2,3,4,6-tetrachlorotoluene	875-40-1
	28	2,3,5,6-tetrachlorotoluene	1006-31-1
	29	pentachlorotoluene	877-11-2

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Items	NO	Substance Name	CAS NO.
Chlorinated phenols	1	2-Chlorophenol	95-57-8
	2	3-Chlorophenol	108-43-0
	3	4-Chlorophenol	106-48-9
	4	2,3-Dichlorophenol	576-24-9
	5	2,4-Dichlorophenol	120-83-2
	6	2,5-Dichlorophenol	583-78-8
	7	2,6-Dichlorophenol	87-65-0
	8	3,4-Dichlorophenol	95-77-2
	9	3,5-Dichlorophenol	591-35-5
	10	2,3,4-Trichlorophenol	15950-66-0
	11	2,3,5-Trichlorophenol	933-78-8
	12	2,3,6-Trichlorophenol	933-75-5
	13	2,4,5-Trichlorophenol	95-95-4
	14	2,4,6-Trichlorophenol	88-06-2
	15	3,4,5-Trichlorophenol	609-19-8
	16	2,3,4,5-Tetrachlorophenol	4901-51-3
	17	2,3,4,6-Tetrachlorophenol	58-90-2
	18	2,3,5,6-Tetrachlorophenol	935-95-5
	19	Pentachlorophenol	87-86-5
Azo Dyes	1	4-aminobiphenyl	92-67-1
	2	Benzidine	92-87-5
	3	4-chloro-o-toluidine	95-69-2
	4	2-naphthylamine	91-59-8
	5	o-aminoazotoluene	97-56-3
	6	5-nitro-o-toluidine	99-55-8
	7	4-chloroaniline	106-47-8
	8	2,4-diaminoanisole	615-05-4
	9	4,4'- Diaminodiphenylmethane	101-77-9
	10	3,3'-dichlorobenzidine	91-94-1
	11	3,3'-dimethoxybenzidine	119-90-4
	12	3,3'-dimethylbenzidine	119-93-7
	13	4,4'-methylenedi-o-toluidine	838-88-0
	14	6-methoxy-m-toluidine	120-71-8
	15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4
	16	4,4'-oxydianiline	101-80-4
	17	4,4'-thiodianiline	139-65-1
	18	o-Toluidine	95-53-4

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Items	NO	Substance Name	CAS NO.
	19	2,4-diaminotoluene	95-80-7
	20	2,4,5-trimethylaniline	137-17-7
	21	2-Methoxyaniline (o-Anisidine)	90-04-0
	22	4-aminoazobenzene	60-09-3
	23	2,4-xylidine	95-68-1
	24	2,6-xylidine	87-62-7
	25	2,4-diaminoanisoole sulphate	39156-41-7
	26	2-Naphthylammoniumacetate	553-00-4
	27	4-chloro-o-toluidinium chloride	3165-93-3
	28	2,4,5-trimethylaniline hydrochloride	21436-97-5
Disperse dyestuffs (allergenous)	1	Disperse Blue 7	3179-90-6
	2	Disperse Blue 26	3860-63-7
	3	Disperse Blue 35	12222-75-2
	4	Disperse Blue 102	12222-97-8
	5	Disperse Blue 106	12223-01-7
	6	Disperse Blue 124	61951-51-7
	7	Disperse Red 1	2872-52-8
	8	Disperse Red 11	2872-48-2
	9	Disperse Red 17	3179-89-3
	10	Disperse Yellow 1	119-15-3
	11	Disperse Yellow 3	2832-40-8
	12	Disperse Yellow 9	6373-73-5
	13	Disperse Yellow 39	12236-29-2
	14	Disperse Yellow 49	54824-37-2
	15	Disperse Orange 1	2581-69-3
	16	Disperse Orange 3	730-40-5
	17	Disperse Orange 37/76/59	13301-61-6
	18	Disperse Brown 1	23355-64-8
	19	C.I. Disperse Blue 35A	56524-77-7

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Items	NO	Substance Name	CAS NO.
Disperse dyestuffs (carcinogenic)	1	Acid Red 26	3761-53-3
	2	Basic Red 9	569-61-9
	3	Basic Violet 14	632-99-5
	4	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo]4-yl]azo]- 5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonate(C.I. Direct Black 38)	1937-37-7
	5	Disodium 3,3'-[[1,1'-biphenyl]- 4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulpho nate) (C.I. Direct Red 28)	573-58-0
	6	Direct Blue 6	2602-46-2
	7	Disperse Blue 1	2475-45-8
	8	Disperse Orange 11	82-28-0
	9	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)	548-62-9
	10	Navy blue	118685-33-9
	11	Acid Violet 49	1694-09-3
	12	[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
	13	Malachite Green	2437-29-8,569-64-2, 10309-95-2
	14	Disperse Blue 3	2475-46-9

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Items	NO	Substance Name	CAS NO.
Flame retardants	1	Monobromobiphenyl	2052-07-5
	2	Dibromobiphenyl	57422-14-2
	3	Tribromobiphenyl	59080-34-1
	4	Tetrabromobiphenyl	60044-24-8
	5	Pentabromobiphenyl	14910-04-4
	6	Hexabromobiphenyl	59080-40-9
	7	Heptabromobiphenyl	35194-78-6
	8	Octabromobiphenyl	27858-07-7
	9	Nonabromobiphenyl	21543-52-2
	10	Decabromobiphenyl	13654-09-6
	11	Monobromodiphenyl ether	6876-00-2
	12	Dibromodiphenyl ether	83694-71-7
	13	Tribromodiphenyl ether	41318-75-6
	14	Tetrabromodiphenyl ether	189084-61-5
	15	Pentabromodiphenyl ether	182346-21-0
	16	Hexabromodiphenyl ether	182677-30-1
	17	Heptabromodiphenyl ether	189084-68-2
	18	Octabromodiphenyl ether	446255-56-7
	19	Nonabromodiphenyl ether	63387-28-0
	20	Decabromodiphenyl ether	1163-19-5
	21	Hexabromocyclododecane(HBCDD)	25637-99-4; 3194-55-6; (134237-50-6); (134237-51-7); (134237-52-8)
	22	Tetrabromobisphenol A(TBBP-A)	79-94-7
	23	TetraBromoBisphenol-A (2,3-Dibromopropyl)ether (TBBP-A-bis)	21850-44-2
	24	Boric acid	10043-35-3; 11113-50-1
	25	Disodium tetraborate, anhydrous	1330-43-4; 12179-04-3; 1303-96-4
	26	Tetraboron disodium heptaoxide, hydrate	12267-73-1
	27	Diboron trioxide(B2O3)	1303-86-2
	28	Disodium octaborate	12008-41-2

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Phosphate flame retardants	1	Tris(2-chloroethyl) phosphate(TCEP)	115-96-8
	2	Tris(2,3-dibromopropyl) phosphate(TDBPP)	126-72-7
	3	2,2-Bis(bromomethyl) propane-1,3-diol(DBNPG)	3296-90-0
	4	Tris(1-aziridinyl)phosphine oxide(TEPAO)	545-55-1
	5	Tris(1,3-dichloroisopropyl) phosphate(TDCPP)	13674-87-8
	6	Tris(2-chloropropyl) phosphate(TCPP)	13674-84-5
	7	Bis(2,3-dibromopropyl) phosphate(BIS-BP)	5412-25-9
Glycols	1	Bis(2-methoxyethyl)ether	111-96-6
	2	2-Ethoxyethanol	110-80-5
	3	2-Ethoxyethyl acetate	111-15-9
	4	Ethylene glycol dimethyl ether	110-71-4
	5	2-Methoxyethanol	109-86-4
	6	2-Methoxyethyl acetate	110-49-6
	7	2-Methoxypropyl acetate	70657-70-4
	8	1,2-bis(2-methoxyethoxy) ethane	112-49-2
Halogenated Solvents	1	1,2-Dichloroethane	107-06-2
	2	Dichloromethane	75-09-2
	3	Trichloroethylene	79-01-6
	4	Tetrachloroethylene	127-18-4
	5	α -chlorotoluene	100-44-7
Organotin compounds	1	Monobutyltin(MBT)	1118-46-3
	2	Dibutyltin(DBT)	683-18-1
	3	Tributyltin(TBT)	1461-22-9
	4	Tetrabutyltin(TeBT)	1461-25-2
	5	Triphenyltin(TPHT)	639-58-7
	6	Trimethyltin(TMT)	1066-45-1
	7	Monooctyltin(MOT)	3091-25-6
	8	Dioctyltin(DOT)	3542-36-7
	9	Trioctyltin(TOT)	2587-76-0
	10	Tetraoctyltin(TeOT)	3590-84-9
	11	Tricyclohexyltin(TCyT)	3091-32-5
	12	Dimethyltin(DMT)	753-73-1
	13	Monophenyltin(MPhT)	1124-19-2
	14	Diphenyltin(DPhT)	1135-99-5
	15	Dipropyltin(DPrT)	867-36-7
	16	Tripropyltin(TPrT)	2279-76-7
	17	MonoMethyltin(MeT)	993-16-8

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Items	NO	Substance Name	CAS NO.
	18	Tetraethyltin(TeET)	597-64-8
Zinc Borate	1	zinc borate	/
Bisphenol A (BPA)	1	Bisphenol A(BPA)	80-05-7
Thiourea	1	Thiourea	62-56-6
Quinoline	1	Quinoline	91-22-5
2-(2-Aminoethylamino)ethanol	1	2-(2-Aminoethylamino)ethanol(AEEA)	111-41-1
PFOS and Related Substances	1	Perfluorooctanesulfonic acid(PFOS)	1763-23-1
	2	Perfluorooctanesulfonic acid, potassium salt(PFOS-K)	2795-39-3
	3	Perfluorooctanesulfonic acid, lithium salt(PFOS-Li)	29457-72-5
	4	Perfluorooctanesulfonic acid, ammonium salt(PFOS-NH4)	29081-56-9
	5	Perfluorooctane sulfonate diethanolamine salt(PFOS-NH(OH)2)	70225-14-8
	6	Perfluorooctanesulfonic acid, tetraethylammonium salt(PFOS-N(C2H5)4)	56773-42-3
	7	N-Ethylperfluoro-1-octanesulfonamide(N-Et-FOSA)	4151-50-2
	8	N-Methylperfluoro-1-octanesulfonamide(N-Me-FOSA)	31506-32-8
	9	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol(N-Et-FOSE)	1691-99-2
	10	2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol(N-Me-FOSE)	24448-09-7
	11	Perfluoro-1-octanesulfonyl fluoride(PFOSF)	307-35-7
	12	Perfluorooctane sulfonamide(PFOSA)	754-91-6
Perfluorooctanoic acid related substances and Its Salts	1	Perfluorooctanoic Acid(PFOA)	335-67-1
	2	Sodium perfluorooctanoate(PFOA-Na)	335-95-5
	3	Potassium perfluorooctanoate(PFOA-K)	2395-00-8
	4	Silver perfluorooctanoate(PFOA-Ag)	335-93-3
	5	Perfluorooctanoyl fluoride(PFOA-F)	335-66-0
	6	Ammonium pentadecafluorooctanoate(APFO)	3825-26-1
	7	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4
	8	Methyl perfluorooctanoate(Me-PFOA)	376-27-2
	9	Ethyl perfluorooctanoate(Et-PFOA)	3108-24-5

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Items	NO	Substance Name	CAS NO.
	10	1H,1H,2H,2H-Heptadecafluorodecyl acrylate(8:2 FTA)	27905-45-9
	11	1H,1H,2H,2H-Perfluorodecyl methacrylate(8:2 FTMA)	1996-88-9
	12	1H.1H.2H.2H-Perfluoro-1-decanol(8:2 FTOH)	678-39-7
Phthalates	1	Dibutyl phthalate(DBP)	84-74-2
	2	Butyl benzyl phthalate(BBP)	85-68-7
	3	Di-(2-ethylhexyl) phthalate(DEHP)	117-81-7
	4	Di-n-octyl phthalate(DNOP)	117-84-0
	5	Di-isononyl phthalate(DINP)	28553-12-0,68515-48-0
	6	Di-iso-decyl phthalate(DIDP)	26761-40-0,68515-49-1
	7	Diethyl phthalate(DEP)	84-66-2
	8	Dipropyl phthalate(DPrP)	131-16-8
	9	Diisobutyl phthalate(DIBP)	84-69-5
	10	Dipentyl phthalate(DPP)	131-18-0
	11	Dicyclohexyl phthalate(DCHP)	84-61-7
	12	Diisooctyl phthalate(DIOP)	27554-26-3
	13	Dinonyl phthalate(DNP)	84-76-4
	14	Di-n-hexyl phthalate(DNHP)	84-75-3
	15	Bis(2-methoxyethyl) phthalate(DMEP)	117-82-8
	16	Diisopentylphthalate(DIPP)	605-50-5
	17	1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters(DHNUP)	68515-42-4
	18	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich(DIHP)	71888-89-6
Polycyclic Aromatic	1	Naphthalene	91-20-3
	2	Phenanthrene	85-01-8
	3	Anthracene	120-12-7
	4	Fluoranthene	206-44-0
	5	Pyrene	129-00-0
	6	Chrysene	218-01-9
	7	Benzo(a)anthracene	56-55-3
	8	Benzo(b)fluoranthene	205-99-2
	9	Benzo(k)fluoranthene	207-08-9
	10	Benzo(j)fluoranthene	205-82-3
	11	Benzo(a)pyrene	50-32-8
	12	Benzo(e)pyrene	192-97-2

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Items	NO	Substance Name	CAS NO.
	13	Dibenzo(a,h)anthracene	53-70-3
	14	Benzo(g,h,i)perylene	191-24-2
	15	Indenol(1,2,3-cd)pyrene	193-39-5
	16	Acenaphthene	83-32-9
	17	Fluorene	86-73-7
	18	Acenaphthylene	208-96-8
Total heavy metal content	1	Antimony(Sb)	7440-36-0
	2	Copper(Cu)	7440-50-8
	3	Arsenic(As)	7440-38-2
	4	Lead(Pb)	7439-92-1
	5	Mercury(Hg)	7439-97-6
	6	Cadmium(Cd)	7440-43-9
	7	Cobalt(Co)	7440-48-4
	8	Chromium(Cr)	7440-47-3
	9	Barium(Ba)	7440-39-3
	10	Selenium(Se)	7782-49-2
	11	Nickel(Ni)	7440-02-0
	12	Silver(Ag)	7440-22-4
	13	Tin(Sn)	7440-31-5
Ultraviolet absorbent	1	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol(UV320)	3846-71-7
	2	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol(UV327)	3864-99-1
	3	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol(UV328)	25973-55-1
	4	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)(UV350)	36437-37-3
Volatile Organic Compounds(VOC)	1	Benzene	71-43-2
	2	p-Cresol	106-44-5
	3	m-Cresol	108-39-4
	4	o-Cresol	95-48-7
	5	Xylene	1330-20-7
Hexavalent Chromium (Cr(VI))	1	Hexavalent Chromium	18540-29-9
Chlorinated paraffins	1	Short Chain Chlorinated Paraffins	85535-84-8
	2	Middle Chain Chlorinated Paraffins	85535-85-9

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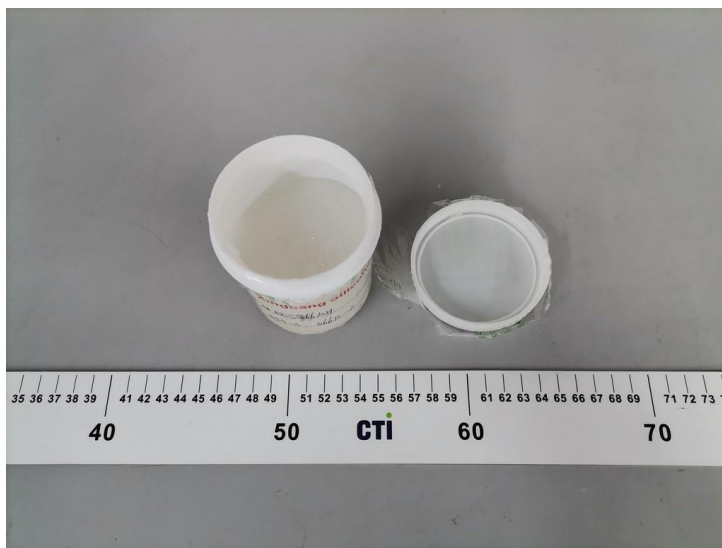
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Tested Sample/Part Description

001 White silicone

Photo(s) of the sample(s)



Statement:

1. This report is considered invalidated without approval signature, special stamp;
2. Company name and address shown on report, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The test result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
5. Except for the requirement of the client, the test results and the conformity assessment in this report do not take the uncertainty into account.

*** End of Report ***