

Report No. 70.400.19.775.02-00.01

Dated 2019-08-30



China

Technical Report

Applicant: Ningbo Oubo Hardware Industrial Ltd.
No.185, Shunyu West Road, Yuyao,
315400 Ningbo,
China

Attn: Tengfei Shi

Manufacturer: Ningbo Oubo Hardware Industrial Ltd.

Test subject: **Product name:** Laser Distance Meter

Model No.: LD Meter A, LD Meter B, LD Meter C

Test specification: Screening of 197 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).

Test method: 1) Test portion is digested with acid, the elements are analyzed by ICP-OES.
2) Organic solvent extraction, GC-MS analysis

Test result: Refer to the data listed in following pages

Conclusion: Concentration in article of each SVHC is less than 0.1% weight by weight (w/w) in the submitted sample(s)

Remarks: 1. The results relates only to the items tested
2. Samples were tested as received

Disclaimer Measurement Uncertainty:

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TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
#151, Hengtong Road
Shanghai 200 070
P. R. China

Shanghai Chemical Lab
No. 1999 Du Hui Road

Tel.: +86-21-6141-0123
Fax: +86-21-6140-8600
www.tuv-sud.cn
info@tuv-sud.cn

Tel.: +86-21-6037-6501

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1. Order

1.1 Date of Purchase Order

2019-06-06

1.2 Customer's Reference

Nil

1.3 Receipt Date of Test Sample

2019-06-10

2019-08-23

1.4 Date of Testing

2019-06-17~2019-08-09

2019-08-23~2019-08-29

1.5 Document submitted

Nil

1.6 Location of Testing

TÜV PS SHA

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2. Description of the tested subject

No.	Tested sample	Picture
001	Laser Distance Meter	A photograph showing several laser distance meters of various models and colors (black, silver, red) arranged on a blue surface. A ruler is placed vertically on the left side of the meters for scale. The meters have various labels, including CE and SUD logos.

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3. Test Results

Screening of 197 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).

Test portion is digested with acid, the elements are analyzed by ICP-OES.

Organic solvent extraction, GC-MS ,HPLC analysis

Item No.	Tested Items	MDL (%)	Concentration(%)	Classification
			001	
1	Anthracene (CAS No. 120-12-7)	0.01	<0.1%	PBT (article 57d)
2	4,4'- Diaminodiphenylmethane (CAS No. 101-77-9)	0.01	<0.1%	Carcinogenic (article 57a)
3	Cobalt dichloride** (CAS No. 7646-79-9)	0.01	<0.1%	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
4	Diarsenic pentaoxide** (CAS No. 1303-28-2)	0.01	<0.1%	Carcinogenic (article 57a)
5	Diarsenic trioxide** (CAS No. 1327-53-3)	0.01	<0.1%	Carcinogenic (article 57a)
6	Lead hydrogen arsenate** (CAS No. 7784-40-9)	0.01	<0.1%	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
7	Triethyl arsenate** (CAS No. 15606-95-8)	0.01	<0.1%	Carcinogenic (article 57a)
8	5-tert-butyl-2,4,6-trinitro-m-xylene (CAS No. 81-15-2)	0.01	<0.1%	vPvB (article 57e)
9	Dis (2-ethylhexyl) phthalate (CAS No. 117-81-7)	0.01	<0.1%	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)

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10	Dibutyl phthalate (CAS No. 84-74-2)	0.01	<0.1%	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
11	Hexabromocyclododecane (CAS No. 25637-99-4)	0.01	<0.1%	PBT (article 57d)

Item No.	Tested Items	MDL (%)	Concentration	Classification
			001	
12	Alkanes, C10-13, chloro (CAS No. 85535-84-8)	0.01	<0.1%	PBT and vPvB (articles 57 d and 57 e)
13	Benzyl butyl phthalate (CAS No. 85-68-7)	0.01	<0.1%	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
14	Bis(tributyltin)oxide (CAS No. 56-35-9)	0.01	<0.1%	PBT (article 57d)
15	Sodium dichromate** (CAS No. 7789-12-0)	0.01	<0.1%	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)
16	Anthracene oil## (CAS No. 90640-80-5)	0.01	<0.1%	Carcinogenic1, PBT and vPvB (articles 57a, 57d and 57e)
17	Anthracene oil, anthracene paste; distn. Lights## (CAS No. 91995-17-4)	0.01	<0.1%	PBT & vPvB, Carcinogen category 2, Mutagen category 2
18	Anthracene oil, anthracene paste, anthracene fraction## (CAS No. 91995-15-2)	0.01	<0.1%	Carcinogenic2, mutagenic3, PBT and vPvB (articles 57a, 57b, 57d and 57e)
19	Anthracene oil, anthracene-low## (CAS No. 90640-82-7)	0.01	<0.1%	Carcinogenic2, mutagenic3, PBT and vPvB (articles 57a, 57b, 57d and 57e)

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20	Anthracene oil, anthracene paste## (CAS No. 90640-81-6)	0.01	<0.1%	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)
21	Coal tar pitch, high temperature (CAS No. 65996-93-2)##	0.01	<0.1%	Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)
22	2,4-Dinitrotoluene (CAS No. 121-14-2)	0.01	<0.1%	Carcinogenic (article 57a)

Item No.	Tested Items	MDL (%)	Concentration	Classification
			001	
23	Diisobutyl phthalate (CAS No. 84-69-5)	0.01	<0.1%	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
24	Lead chromate** (CAS No. 7758-97-6)	0.01	<0.1%	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
25	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)** (CAS No. 12656-85-8)	0.01	<0.1%	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)** (CAS No. 1344-37-2)	0.01	<0.1%	Carcinogenic and toxic for reproduction (articles 57 a and 57 c))
27	Tris(2-chloroethyl)phosphate (CAS No. 115-96-8)	0.01	<0.1%	Toxic for reproduction (article 57c)
28	Acrylamide (79-06-01)	0.01	<0.1%	Carcinogenic (article 57 a)
29	Boric acid** (10043-35-3)	0.01	<0.1%	Toxic for reproduction (article 57 c)

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30	Disodium tetraborate, anhydrous** (1330-43-4)	0.01	<0.1%	Toxic to Reproduction category 2
31	Teraboron disodium heptaoxide,hydrate** (12267-73-1)	0.01	<0.1%	Toxic to Reproduction category 2
32	Sodium Chromate** (7775-11-3)	0.01	<0.1%	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
33	Potassium Chromate** (7789-00-6)	0.01	<0.1%	Carcinogenic and mutagenic (articles 57 a and 57 b).

Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
34	Ammonium dichromate** (7789-09-5)	0.01	<0.1%	Carcinogen Category2; Mutagen Category2; Toxic to Reproduction Category2
35	Potassium dichromate** (7778-50-9)	0.01	<0.1%	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
36	Trichloroethylene (79-01-6)	0.01	<0.1%	Carcinogenic (article 57 a)
37	Cobalt(II) sulphate** (10124-43-3)	0.01	<0.1%	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
38	Cobalt(II) dinitrate** (10141-05-6)	0.01	<0.1%	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

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			001	
39	Cobalt(II) carbonate** (513-79-1)	0.01	<0.1%	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
40	Cobalt(II) diacetate** (71-48-7)	0.01	<0.1%	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
41	2-Methoxyethanol (109-86-4)	0.01	<0.1%	Toxic for reproduction (article 57c)
42	2-Ethoxyethanol (110-80-5)	0.01	<0.1%	Toxic for reproduction (article 57c)
43	Chromium trioxide** (1333-82-0)	0.01	<0.1%	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
44	Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid**	0.01	<0.1%	Carcinogenic (article 57a)
45	2-Ethoxyethyl acetate (2-EEA) (111-15-9)	0.01	<0.1%	Toxic for reproduction (article 57c)
46	Strontium chromate** (7789-06-2)	0.01	<0.1%	Carcinogenic (article 57a)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (68515-42-4)	0.01	<0.1%	Toxic for reproduction (article 57c)
48	Hydrazine (302-01-2, 7803-57-8)	0.01	<0.1%	Carcinogenic (article 57a)
49	Methyl-2-pyrrolidone (872-50-4)	0.01	<0.1%	Toxic for reproduction (article 57c)
50	1,2,3-Trichloropropane (96-18-4)	0.01	<0.1%	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (71888-89-6)	0.01	<0.1%	Toxic for reproduction (article 57c)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
52	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight **	0.01	<0.1%	Carcinogenic (article 57 a)
53	Calcium arsenate** (7778-44-1)	0.01	<0.1%	Carcinogenic (article 57 a)
54	Bis(2-methoxyethyl) ether (111-96-6)	0.01	<0.1%	Toxic for reproduction (article 57 c)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
55	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight **	0.01	<0.1%	Carcinogenic (article 57 a)
56	Potassium hydroxyoctaoxodizincatedichromate** (11103-86-9)	0.01	<0.1%	Carcinogenic (article 57 a)
57	Lead dipicrate** (6477-64-1)	0.01	<0.1%	Toxic for reproduction (article 57 c)
58	N,N-dimethylacetamide (127-19-5)	0.01	<0.1%	Toxic for reproduction (article 57 c)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
59	Arsenic acid** (7778-39-4)	0.01	<0.1%	Carcinogenic (article 57 a)
60	2-Methoxyaniline; o-Anisidine (90-04-0)	0.01	<0.1%	Carcinogenic (article 57 a)
61	Trilead diarsenate** (3687-31-8)	0.01	<0.1%	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
62	1,2-dichloroethane (107-06-2)	0.01	<0.1%	Carcinogenic (article 57 a)
63	Pentazinc chromate octahydroxide** (49663-84-5)	0.01	<0.1%	Carcinogenic (article 57 a)
64	Formaldehyde, oligomeric reaction products with aniline (25214-70-4)	0.01	<0.1%	Carcinogenic (article 57 a)
65	Bis(2-methoxyethyl) phthalate (117-82- 8)	0.01	<0.1%	Toxic for reproduction (article 57 c)
66	4-(1,1,3,3-tetramethylbutyl)phenol (140- 66-9)	0.01	<0.1%	Equivalent level of concern having probable serious effects to the environment (article 57 f)
67	Lead diazide, Lead azide** (13424-46-9)	0.01	<0.1%	Toxic for reproduction (article 57 c),
68	Phenolphthalein (77-09-8)	0.01	<0.1%	Carcinogenic (article 57 a)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
69	Dichromium tris(chromate) (24613-89-6)**	0.01	<0.1%	Carcinogenic (article 57 a)
70	Lead styphnate** (15245-44-0)	0.01	<0.1%	Toxic for reproduction (article 57 c)
71	2,2'-dichloro-4,4'-methylenedianiline (101-14-4)	0.01	<0.1%	Carcinogenic (article 57 a)
72	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)# (6786-83-0)	0.01	<0.1%	Carcinogenic (Article 57a)
73	N,N,N',N'-tetramethyl-4,4'- methylenedianiline (101-61-1)	0.01	<0.1%	Carcinogenic (Article 57a)
74	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC) (59653-74-6)	0.01	<0.1%	Mutagenic (Article 57b)
75	Diboron trioxide** (1303-86-2)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
76	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) (112-49-2)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
77	4,4'-bis(dimethylamino)-4''- (methylamino)trityl alcohol# (561-41-1)	0.01	<0.1%	Carcinogenic (Article 57a)
78	Lead(II) bis(methanesulfonate)** (17570-76-2)	0.01	<0.1%	Toxic for reproduction (Article 57 c)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
79	Formamide (75-12-7)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
80	4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride(C.I. Basic Violet 3) [#] (548-62-9)	0.01	<0.1%	Carcinogenic (Article 57a)
81	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) (110-71-4)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
82	[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)	0.01	<0.1%	Carcinogenic (Article 57a)
83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) (2451-62-9)	0.01	<0.1%	Mutagenic (Article 57b)
84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone) (90-94-8)	0.01	<0.1%	Carcinogenic (Article 57a)
85	Pyrochlore, antimony lead yellow** (8012-00-8)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
86	6-methoxy-m-toluidine (p-cresidine) (120-71-8)	0.01	<0.1%	Carcinogenic (Article 57a)
87	Henicosfluoroundecanoic acid (2058-94-8)	0.01	<0.1%	vPvB (Article 57 e)

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#151, Hengtong Road
Shanghai 200 070
P. R. China

Shanghai Chemical Lab
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Tel.: +86-21-6141-0123
Fax: +86-21-6140-8600
www.tuv-sud.cn
info@tuv-sud.cn

Tel.: +86-21-6037-6501



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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
88	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] <i>[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]</i> (25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9)	0.01	<0.1%	Equivalent level of concern having probable serious effects to human health (Article 57 f)
89	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] <i>[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]</i> (85-42-7, 13149-00-3, 14166-21-3)	0.01	<0.1%	Equivalent level of concern having probable serious effects to human health (Article 57 f)
90	Dibutyltin dichloride (DBTC) (683-18-1)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
91	Lead bis(tetrafluoroborate)** (13814-96-5)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
92	Lead dinitrate** (10099-74-8)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
93	Silicic acid, lead salt** (11120-22-2)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
94	4-Aminoazobenzene (60-09-3)	0.01	<0.1%	Carcinogenic (Article 57a)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
95	Lead titanium zirconium oxide** (12626-81-2)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
96	Lead monoxide (lead oxide)** (1317-36-8)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
97	o-Toluidine (95-53-4)	0.01	<0.1%	Carcinogenic (Article 57a)
98	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine (143860-04-2)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
99	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped <i>[with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]**</i> (68784-75-8)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
100	Trilead bis(carbonate)dihydroxide** (1319-46-6)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
101	Furan (110-00-9)	0.01	<0.1%	Carcinogenic (Article 57a)
102	N,N-dimethylformamide (68-12-2)	0.01	<0.1%	Toxic for reproduction (Article 57 c)

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#151, Hengtong Road
Shanghai 200 070
P. R. China

Shanghai Chemical Lab
No. 1999 Du Hui Road

Tel.: +86-21-6141-0123
Fax: +86-21-6140-8600
www.tuv-sud.cn
info@tuv-sud.cn

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China

Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
103	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	0.01	<0.1%	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
104	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	0.01	<0.1%	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
105	4,4'-methylenedi-o-toluidine (838-88-0)	0.01	<0.1%	Carcinogenic (Article 57a)
106	Diethyl sulphate (64-67-5)	0.01	<0.1%	Carcinogenic (Article 57a); Mutagenic (Article 57b)
107	Dimethyl sulphate (77-78-1)	0.01	<0.1%	Carcinogenic (Article 57a)
108	Lead oxide sulfate** (12036-76-9)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
109	Lead titanium trioxide** (12060-00-3)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
110	Acetic acid, lead salt, basic** (51404-69-4)	0.01	<0.1%	Toxic for reproduction (Article 57 c)

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China

Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
111	[Phthalato(2-)]dioxotrilead** (69011-06-9)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
112	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE) (1163-19-5)	0.01	<0.1%	PBT (Article 57 d); vPvB (Article 57 e)
113	N-methylacetamide (79-16-3)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
114	Dinoseb (6-sec-butyl-2,4-dinitrophenol) (88-85-7)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
115	1,2-Diethoxyethane (629-14-1)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
116	Tetralead trioxide sulphate** (12202-17-4)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
117	N-pentyl-isopentylphthalate (776297-69-9)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
118	Dioxobis(stearato)trilead** (12578-12-0)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
119	Tetraethyllead** (78-00-2)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
120	Pentalead tetraoxide sulphate** (12065-90-6)	0.01	<0.1%	Toxic for reproduction (Article 57 c)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
121	Pentacosafuorotridecanoic acid (72629-94-8)	0.01	<0.1%	vPvB (Article 57 e)
122	Tricosafuorododecanoic acid (307-55-1)	0.01	<0.1%	vPvB (Article 57 e)
123	Heptacosafuorotetradecanoic acid (376-06-7)	0.01	<0.1%	vPvB (Article 57 e)
124	1-bromopropane (n-propyl bromide) (106-94-5)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
125	Methoxyacetic acid (625-45-6)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
126	4-methyl-m-phenylenediamine (toluene-2,4-diamine) (95-80-7)	0.01	<0.1%	Carcinogenic (Article 57a)
127	Methyloxirane (Propylene oxide) (75-56-9)	0.01	<0.1%	Carcinogenic (Article 57a); Mutagenic (Article 57b)
128	Trilead dioxide phosphonate** (12141-20-7)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
129	o-aminoazotoluene (97-56-3)	0.01	<0.1%	Carcinogenic (Article 57a)
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (84777-06-0)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
131	4,4'-oxydianiline and its salts (101-80-4)	0.01	<0.1%	Carcinogenic (Article 57a); Mutagenic (Article 57b)

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 Shanghai 200 070
 P. R. China

Shanghai Chemical Lab
 No. 1999 Du Hui Road

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 Fax: +86-21-6140-8600
www.tuv-sud.cn
info@tuv-sud.cn

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
132	Orange lead (lead tetroxide)** (1314-41-6)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
133	Biphenyl-4-ylamine (92-67-1)	0.01	<0.1%	Carcinogenic (Article 57a)
134	Diisopentylphthalate (605-50-5)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
135	Fatty acids, C16-18, lead salts** (91031-62-8)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
136	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (123-77-3)	0.01	<0.1%	Equivalent level of concern having probable serious effects to human health (Article 57 f)
137	Sulfurous acid, lead salt, dibasic** (62229-08-7)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
138	Lead cyanamidate** (20837-86-9)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
139	Cadmium (7440-43-9)	0.01	<0.1%	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
140	Ammonium pentadecafluorooctanoate (APFO) (3825-26-1)	0.01	<0.1%	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
141	Pentadecafluorooctanoic acid (PFOA) (335-67-1)	0.01	<0.1%	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
142	Dipentyl phthalate (DPP) (131-18-0)	0.01	<0.1%	Toxic for reproduction (Article 57 c);
143	4-Nonylphenol, branched and linear, ethoxylated [<i>substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof</i>]	0.01	<0.1%	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
144	Cadmium oxide** (1306-19-0)	0.01	<0.1%	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
145	Cadmium sulphide** (1306-23-6)	0.01	<0.1%	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
146	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)	0.01	<0.1%	Carcinogenic (Article 57a)
147	Diethyl phthalate (84-75-3)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
148	Imidazolidine-2-thione; (2-imidazoline-2-thiol) (96-45-7)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
149	Triethyl phosphate (25155-23-1)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
150	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) (573-58-0)	0.01	<0.1%	Carcinogenic (Article 57a)
151	Lead di(acetate)** (301-04-2)	0.01	<0.1%	Toxic for reproduction (Article 57 c);

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
152	Cadmium chloride (10108-64-2)	0.01	<0.1%	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (68515-50-4)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
154	Sodium peroxometaborate** (7632-04-4)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
155	Sodium perborate; perboric acid, Sodium salt**	0.01	<0.1%	Toxic for reproduction (Article 57 c)
156	Cadmium fluoride** (7790-79-6)	0.01	<0.1%	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for Reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
157	Cadmium sulphate** (10124-36-4;31119-53-6)	0.01	<0.1%	Carcinogenic (Article 57 a); Mutagenic (article 57 b); Toxic for Reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (3846-71-7)	0.01	<0.1%	PBT (Article 57 d); vPvB (Article 57 e)
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol(UV-328) (25973-55-1)	0.01	<0.1%	PBT (Article 57 d); vPvB (Article 57 e)
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) (15571-58-1)	0.01	<0.1%	Toxic for Reproduction (Article 57 c)
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	0.01	<0.1%	Toxic for Reproduction (Article 57 c)
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 (68515-51-5, 68648-93-1)	0.01	<0.1%	Toxic for Reproduction (Article 57 c)

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TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
#151, Hengtong Road
Shanghai 200 070
P. R. China

Shanghai Chemical Lab
No. 1999 Du Hui Road

Tel.: +86-21-6141-0123
Fax: +86-21-6140-8600
www.tuv-sud.cn
info@tuv-sud.cn

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China

Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
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]	0.01	<0.1%	vPvB (Article 57 e)
164	Perfluorononan-1-oic-acid and its sodium and ammonium salts (375-95-1, 21049-39-8, 4149-60-4)	0.01	<0.1%	Toxic for reproduction (Article 57 c) PBT (Article 57 d)
165	Nitrobenzene (98-95-3)	0.01	<0.1%	Toxic for reproduction (Article 57 c)
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) (36437-37-3)	0.01	<0.1%	vPvB (Article 57 e)
167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) (3864-99-1)	0.01	<0.1%	vPvB (Article 57 e)
168	1,3-propanesultone (1120-71-4)	0.01	<0.1%	Carcinogenic (Article 57 a)
169	Benzo[def]chrysene (Benzo[a]pyrene) (50-32-8)	0.01	<0.1%	Carcinogenic (Article 57 a) Mutagenic (Article 57 b) Toxic for reproduction (Article 57 c); PBT (Article 57 d) vPvB (Article 57 e)
170	4,4'-isopropylidenediphenol (Bisphenol A, BPA) (80-05-7)	0.01	<0.1%	Toxic for reproduction (Article 57 c) Endocrine disrupting properties (Article 57(f) - human health)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts (335-76-2, 3830-45-3, 3108-42-7)	0.01	<0.1%	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
172	p-(1,1-dimethylpropyl)phenol (pentylphenol, PTAP) (80-46-6)	0.01	<0.1%	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
173	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB-and well-defined substances which include any of the individual isomers or a combination thereof]	0.01	<0.1%	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS) (355-46-4)	0.01	<0.1%	vPvB (Article 57 e)
175	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)[with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear (4-HPbl)]	0.01	<0.1%	Endocrine disrupting properties (Article 57(f) - environment)
176	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)	0.01	<0.1%	vPvB (Article 57e)
177	Chrysene (218-01-9, 1719-03-5)	0.01	<0.1%	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
178	Cadmium nitrate (10022-68-1, 10325-94-7)	0.01	<0.1%	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
179	Cadmium hydroxide (21041-95-2)	0.01	<0.1%	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
180	Cadmium carbonate (513-78-0)	0.01	<0.1%	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
181	Benz[a]anthracene (56-55-3, 1718-53-2)	0.01	<0.1%	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
182	Octamethylcyclotetrasiloxane (D4) (556-67-2)	0.01	<0.1%	PBT (Article 57d); vPvB (Article 57e)
183	Decamethylcyclopentasiloxane (D5) (541-02-6)	0.01	<0.1%	PBT (Article 57d); vPvB (Article 57e)
184	Dodecamethylcyclohexasiloxane (D6) (540-97-6)	0.01	<0.1%	PBT (Article 57d); vPvB (Article 57e)
185	Lead (7439-92-1)	0.01	<0.1%	Toxic for reproduction (Article 57c)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
186	Disodium octaborate (12008-41-2)	0.01	<0.1%	Toxic for reproduction (Article 57c)
187	Benzo[ghi]perylene (191-24-2)	0.01	<0.1%	PBT (Article 57d); vPvB (Article 57e)
188	Terphenyl hydrogenated (61788-32-7)	0.01	<0.1%	vPvB (Article 57e)
189	Ethylenediamine (EDA) (107-15-3)	0.01	<0.1%	Respiratory sensitising properties (Article 57(f) - human health)
190	Dicyclohexyl phthalate (DCHP) (84-61-7)	0.01	<0.1%	Toxic for reproduction (Article 57(c)); endocrine disrupting properties (Article 57(f) - human health)
191	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA) (552-30-7)	0.01	<0.1%	Respiratory sensitising properties (Article 57(f)) – human health)
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) (15087-24-8)	0.01	<0.1%	Endocrine disrupting properties (Article 57(f) - environment)
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane (6807-17-6)	0.01	<0.1%	Toxic for reproduction (Article 57c)
194	Benzo[k]fluoranthene (207-08-9)	0.01	<0.1%	Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)
195	Fluoranthene (206-44-0)	0.01	<0.1%	PBT (Article 57d); vPvB (Article 57e)
196	Phenanthrene (85-01-8)	0.01	<0.1%	vPvB (Article 57e)

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Item No.	Tested Items	MDL (%)	Concentration (%)	Classification
			001	
197	Pyrene (129-00-0)	0.01	<0.1%	PBT (Article 57d); vPvB (Article 57e)

Remark:

1. Above result for the submitted samples (Laser Distance Meter) are calculated based on relevant material testing data.
2. ** Denotes result is based on the heavy metal or inorganic element concentration. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
3. ## The substances are UVCB(substance of unknown or variable composition, complex reaction products or biological materials), which are identified by it main constituents. Individual concentrations to the constituent of UVCB with an amount of <0.01% were not considered by the calculation of the sum.
4. # only applicable with $\geq 0.1\%$ of Michler's ketone (CAS No. 90-94-8) or Michler's base (CAS No. 101-61-1)
5. The analysis of 197 SVHC is done by currently available test & screening techniques against the SVHC candidate list published by European Chemical Agency (ECHA).

Refer to http://echa.europa.eu/chem_data/candidate_list_table_en.asp for details.

6. In accordance with Regulation(EC) No 1907/2006, any producer or importer of substances, preparations and articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a

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#151, Hengtong Road
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P. R. China

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substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), if both the following conditions are met:

- (a) The substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year;
 - (b) The substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
7. From 28 October 2008, EU & EEA suppliers whose goods contain substances on the Candidate List in a concentration above 0.1%(w/w) must provide sufficient information to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.

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P. R. China

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4. Breakdown of submitted sample:

LD Meter A

Item No.:	Description	Material
1	Front cover	ABS
2	Base cover	ABS
3	Button	Silicon
4	Battery cover	ABS
5	Panel	PMMA
6	Screw	Metal
7	Screw	Metal
8	Battery connctor piece	Metal
9	Battery connector spring	Metal
10	Base label	PVC
11	Screen	--

LD Meter B

Item No.:	Description	Material
1	Front cover	ABS
2	Base cover	ABS
3	Button	Silicon
4	Battery cover	ABS
5	Panel	PMMA
6	Screw	Metal
7	Screw	Metal
8	Battery connctor piece	Metal
9	Battery connector spring	Metal
10	Base label	PVC
11	Protect film	Palstic
12	Screen	--

LD Meter C

Item No.:	Description	Material
1	Shell	Al
2	Top cover	ABS
3	Bottom cover	ABS
4	Button	ABS
5	Panel	PMMA
6	Screw	Metal
7	LCD screen	--
8	Base label	PVC
9	Protect film	Palstic

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P. R. China

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www.tuv-sud.cn
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China

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

Engineer

A blue octagonal stamp with 'TUV SUD CHINA' around the perimeter. A handwritten signature 'Shen Jian' is written across the stamp.

Mr. Shen Jian

Checked by

A blue octagonal stamp with 'TUV SUD CHINA' around the perimeter. A handwritten signature 'Qi Nannan' is written across the stamp.

Ms. Qi Nannan

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#151, Hengtong Road
Shanghai 200 070
P. R. China

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Appendix A: Relevant Definitions

Classification	Definition under 67/548/EEC and Regulation (EC) No 1907/2006
Carcinogen category 1	Substances known to be carcinogenic to humans. There is sufficient evidence to establish a causal association between human exposure to the substance and the development of cancer.
Carcinogen category 2	Substances that should be regarded as if they are carcinogenic to humans, there is sufficient evidence, based on long-term animal studies and other relevant information, to provide a strong presumption that human exposure may result in the development of cancer.
Mutagen category 1	Substances known to be mutagenic to humans, There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage.
Mutagen category 2	Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provided a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of : -appropriate animal studies, -other relevant information.
Toxic to Reproduction category 1:	Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility. Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny.

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Toxic to Reproduction category 2:	<p>Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility on the basis of :</p> <ul style="list-style-type: none">-clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other .-other relevant information. <p>Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of :</p> <ul style="list-style-type: none">-clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects.-other relevant information.
PBT & vPvB	<p>Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative(vPvB) pose a particular challenge to the chemicals safety management. For these substances a “safe” concentration in the environment cannot be established with sufficient reliability.</p>

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