



## Test Report

No.HKHL1305044849SD

Date: JUN 03, 2013

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PRELAM ENTEPRISES LIMITED  
300 BAIG BLVD, SUITE C4,  
MONCTON, NB, E1E1C8,  
CANADA

The following samples were submitted and identified on behalf of the client as:

### LIQUID ODOR DEODORIZER

SGS Case No. : HKHL130500032004  
Colour : BLUE  
Model No. : CHILE-FORMULATION #3  
Quantity Submitted : 1 PC  
Manufacturer : PRELAM ENTEPRISES LIMITED  
Country of Origin : CANADA  
Country of Destination : CHINA  
Sample Receiving Date : MAY 14, 2013  
Test Performing Date : MAY 14, 2013 TO JUN 03, 2013

Test Requested :

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

- 138 substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before December 19, 2012 regarding Regulation (EC) No 1907/2006 concerning the REACH.
- 10 substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on March 04, 2013 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Result(s) : Please refer to next page(s).

Summary :

According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ in the submitted sample.	PASS
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Signed for and on behalf of  
SGS Hong Kong Ltd.

Au Kam Chi, Gigi  
Assistant Section Manager

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**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> (Candidate list)
- <http://echa.europa.eu/proposals-to-identify-substances-of-very-high-concern> (Consultation list)

The list is under evaluation by ECHA and may subject to change in the future.

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

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

- [http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS\\_SVHC-paper-EN-11.pdf](http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf)

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

5. 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.

**Test Sample :**

Sample Description : LIQUID ODOR DEODORIZER

<b>Component No.</b>	<b>Component Description</b>
1.	Transparent Blue Liquid

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**Test Method :**

SGS In-House method - Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC-DAD and colorimetric method

**Test Result (per test group) : (Substances in the candidate list of SVHC)**

Substance Name	CAS No.	EC No.	Concentration (%)	RL(%)
[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	219-943-6	ND	0.050
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	ND	0.050
[Phthalato(2-)]dioxotrilead *	69011-06-9	273-688-5	ND	0.005
1,2,3-Trichloropropane	96-18-4	202-486-1	ND	0.050
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	ND	0.050
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	ND	0.050
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	ND	0.050
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	ND	0.050
1,2-Dichloroethane	107-06-2	203-458-1	ND	0.050
1,2-Diethoxyethane	629-14-1	211-076-1	ND	0.050
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	ND	0.050
1-Bromopropane	106-94-5	203-445-0	ND	0.050
1-Methyl-2-pyrrolidone	872-50-4	212-828-1	ND	0.050
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	ND	0.050
2,4-Dinitrotoluene	121-14-2	204-450-0	ND	0.050
2-Ethoxyethanol	110-80-5	203-804-1	ND	0.050
2-Ethoxyethyl acetate	111-15-9	203-839-2	ND	0.050
2-Methoxyaniline	90-04-0	201-963-1	ND	0.050
2-Methoxyethanol	109-86-4	203-713-7	ND	0.050

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**Test Result (per test group) (Con't) : (Substances in the candidate list of SVHC)**

Substance Name	CAS No.	EC No.	Concentration (%)	RL(%)
3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	ND	0.050
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	ND	0.050
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	ND	0.050
4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	202-027-5	ND	0.050
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	ND	0.050
4,4'-Methylenedi- <i>o</i> -toluidine	838-88-0	212-658-8	ND	0.050
4,4'-Oxydianiline	101-80-4	202-977-0	ND	0.050
4-Aminoazobenzene	60-09-3	200-453-6	ND	0.050
4-Methyl- <i>m</i> -phenylenediamine	95-80-7	202-453-1	ND	0.050
4-Nonylphenol, branched and linear	-	-	ND	0.050
4-tert-Octylphenol	140-66-9	205-426-2	ND	0.050
5-tert-butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)	81-15-2	201-329-4	ND	0.050
6-Methoxy- <i>m</i> -toluidine	120-71-8	204-419-1	ND	0.050
Acetic acid, lead salt, basic*	51404-69-4	257-175-3	ND	0.005
Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2 -	231-801-5 236-881-5 -	ND	0.005
Acrylamide	79-06-1	201-173-7	ND	0.050
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	ND	0.050
Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	-	ND	0.005
Ammonium dichromate*	7789-09-5	232-143-1	ND	0.005

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**Test Result (per test group) (Con't) : (Substances in the candidate list of SVHC)**

Substance Name	CAS No.	EC No.	Concentration (%)	RL(%)
Anthracene	120-12-7	204-371-1	ND	0.050
Anthracene oil*	90640-80-5	292-602-7	ND	0.050
Anthracene oil, anthracene paste*	90640-81-6	292-603-2	ND	0.050
Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2	295-275-9	ND	0.050
Anthracene oil, anthracene paste; distn. Lights*	91995-17-4	295-278-5	ND	0.050
Anthracene oil, anthracene-low*	90640-82-7	292-604-8	ND	0.050
Arsenic acid*	7778-39-4	231-901-9	ND	0.005
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	ND	0.050
Biphenyl-4-ylamine	92-67-1	202-177-1	ND	0.050
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	ND	0.050
Bis(2-methoxyethyl) ether	111-96-6	203-924-4	ND	0.050
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	ND	0.050
Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	ND	0.050
Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	ND	0.050
Boric acid*	10043-35-3; 11113-50-1	233-139-2; 234-343-4	ND	0.005
C,C'-azodi(formamide) (ADCA)	123-77-3	204-650-8	ND	0.050
Calcium arsenate*	7778-44-1	231-904-5	ND	0.005
Chromium trioxide*	1333-82-0	215-607-8	ND	0.005
Cobalt dichloride*	7646-79-9	231-589-4	ND	0.005
Cobalt(II) carbonate*	513-79-1	208-169-4	ND	0.005
Cobalt(II) diacetate*	71-48-7	200-755-8	ND	0.005
Cobalt(II) dinitrate*	10141-05-6	233-402-1	ND	0.005
Cobalt(II) sulphate*	10124-43-3	233-334-2	ND	0.005

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**Test Result (per test group) (Con't) : (Substances in the candidate list of SVHC)**

Substance Name	CAS No.	EC No.	Concentration (%)	RL(%)
Diarsenic pentaoxide*	1303-28-2	215-116-9	ND	0.005
Diarsenic trioxide*	1327-53-3	215-481-4	ND	0.005
Diboron trioxide*	1303-86-2	215-125-8	ND	0.005
Dibutyl phthalate (DBP)	84-74-2	201-557-4	ND	0.050
Dibutyltin dichloride (DBT)	683-18-1	211-670-0	ND	0.050
Dichromium tris(chromate) *	24613-89-6	246-356-2	ND	0.005
Diethyl sulphate	64-67-5	200-589-6	ND	0.050
Diisobutyl phthalate	84-69-5	201-553-2	ND	0.050
Diisopentylphthalate (DIPP)	605-50-5	210-088-4	ND	0.050
Dimethyl sulphate	77-78-1	201-058-1	ND	0.050
Dinoseb	88-85-7	201-861-7	ND	0.050
Dioxobis(stearato)trilead*	12578-12-0	235-702-8	ND	0.005
Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3	215-540-4	ND	0.005
Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	ND	0.005
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	ND	0.050
Formamide	75-12-7	200-842-0	ND	0.050
Furan	110-00-9	203-727-3	ND	0.050
Henicosafuoroundecanoic acid	2058-94-8	218-165-4	ND	0.050
Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	ND	0.050
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) $\Delta$	25637-99-4 3194-55-6	247-148-4 221-695-9	ND	0.050
Hexahydro-2-benzofuran-1,3-dione, <i>cis</i> -cyclohexane-1,2-dicarboxylic anhydride, <i>trans</i> -cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	ND	0.050

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**Test Result (per test group) (Con't) : (Substances in the candidate list of SVHC)**

Substance Name	CAS No.	EC No.	Concentration (%)	RL(%)
Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	ND	0.050
Hydrazine	7803-57-8 302-01-2	206-114-9	ND	0.050
Lead bis(tetrafluoroborate) *	13814-96-5	237-486-0	ND	0.005
Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	ND	0.005
Lead chromate*	7758-97-6	231-846-0	ND	0.005
Lead cyanamidate*	20837-86-9	244-073-9	ND	0.005
Lead diazide*	13424-46-9	236-542-1	ND	0.005
Lead dinitrate*	10099-74-8	233-245-9	ND	0.005
Lead dipicrate*	6477-64-1	229-335-2	ND	0.005
Lead hydrogen arsenate*	7784-40-9	232-064-2	ND	0.005
Lead monoxide *	1317-36-8	215-267-0	ND	0.005
Lead oxide sulphate *	12036-76-9	234-853-7	ND	0.005
Lead styphnate*	15245-44-0	239-290-0	ND	0.005
Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	ND	0.005
Lead tetroxide *	1314-41-6	215-235-6	ND	0.005
Lead titanium trioxide*	12060-00-3	235-038-9	ND	0.005
Lead titanium zirconium oxide*	12626-81-2	235-727-4	ND	0.005
Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	ND	0.005
Methoxyacetic acid	625-45-6	210-894-6	ND	0.050

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**Test Result (per test group) (Con't) : (Substances in the candidate list of SVHC)**

Substance Name	CAS No.	EC No.	Concentration (%)	RL(%)
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	ND	0.050
N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	ND	0.050
N,N-Dimethylformamide	68-12-2	200-679-5	ND	0.050
N-Methylacetamide	79-16-3	201-182-6	ND	0.050
N-Pentyl-isopentylphthalate	776297-69-9	-	ND	0.050
o-Aminoazotoluene	97-56-3	202-591-2	ND	0.050
o-Toluidine	95-53-4	202-429-0	ND	0.050
Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	ND	0.050
Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	ND	0.005
Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	ND	0.005
Phenolphthalein	77-09-8	201-004-7	ND	0.050
Pitch, coal tar, high temp.*	65996-93-2	266-028-2	ND	0.050
Potassium chromate*	7789-00-6	232-140-5	ND	0.005
Potassium dichromate*	7778-50-9	231-906-6	ND	0.005
Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	234-329-8	ND	0.005
Propylene oxide	75-56-9	200-879-2	ND	0.050
Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	ND	0.005
Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	ND	0.005
Silicic acid, lead salt*	11120-22-2	234-363-3	ND	0.005
Sodium chromate*	7775-11-3	231-889-5	ND	0.005
Sodium dichromate*	7789-12-0 10588-01-9	234-190-3	ND	0.005
Strontium chromate*	7789-06-2	232-142-6	ND	0.005
Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	ND	0.005

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**Test Result (per test group) (Con't) : (Substances in the candidate list of SVHC)**

Substance Name	CAS No.	EC No.	Concentration (%)	RL(%)
Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	ND	0.005
Tetraethyllead*	78-00-2	201-075-4	ND	0.005
Tetralead trioxide sulphate*	12202-17-4	235-380-9	ND	0.005
TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	ND	0.050
Trichloroethylene	79-01-6	201-167-4	ND	0.050
Tricosafuorododecanoic acid	307-55-1	206-203-2	ND	0.050
Triethyl arsenate*	15606-95-8	427-700-2	ND	0.005
Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	ND	0.005
Trilead diarsenate*	3687-31-8	222-979-5	ND	0.005
Trilead dioxide phosphonate*	12141-20-7	235-252-2	ND	0.005
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	ND	0.050
Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	-	ND	0.005
$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	ND	0.050
$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	ND	0.050

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**Test Result (per test group) (Con't) : (Substances in the consultation list of SVHC)**

Substance Name	CAS No.	EC No.	Concentration (%)	RL(%)
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	ND	0.050
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	ND	0.050
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	ND	0.050
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	ND	0.050
4-Nonylphenol, branched and linear, ethoxylated	-	-	ND	0.050
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	ND	0.050
Cadmium	7440-43-9	231-152-8	ND	0.005
Cadmium oxide*	1306-19-0	215-146-2	ND	0.005
Dipentyl phthalate (DPP)	131-18-0	205-017-9	ND	0.050
Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	ND	0.050

**Notes :**

1. RL = Reporting Limit. All RL are based on homogenous material
2. ND = Not detected (lower than RL). ND is denoted on the SVHC substance.
3. <sup>Δ</sup> CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
4. \* The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

[www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm](http://www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm)

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium, chromium (VI), silicon, aluminum, zirconium, zinc, antimony, calcium, titanium, barium, potassium and strontium respectively), except molybdenum RL = 0.0005%, boron RL = 0.0025%, tin RL = 0.0035%.

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**Photo Appendix**



\*\*\* End of Report \*\*\*

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