



Product Service

Technical Report No. 68.167.11.00014.01B
Dated 2011-06-17

Applicant: PRECASTER ENTERPRISES CO., LTD.

Address: No.204, Sec. 2, Fu-Hsing Rd., Taichung, Taiwan

Attn.: George Li

Product Description: Laser meter

Model No.: CA770, CA740

Product Receive Date: 2011-05-12

Test Period: From 2011-05-12 to 2011-05-20

Test Requested: REACH Regulation (EC) No. 1907/2006
- 46 Substances of Very High Concern (SVHC) analysis based on the Candidate List published on the European Chemicals Agency (ECHA) website in October 2008, January 2010, March 2010, June 2010 and December 2010

Test Result: Refer to following page(s)



Remark: The result relates only to the items tested.

No extract, abridgment or abstraction from a test report may be published or used to advertise a product without the written consent of the Director of TÜV Product Service Ltd. The results contained herein apply only to the particular sample tested and to the specific test carried out and not to samples of the current production line.

Jiangsu TÜV Product Service Ltd. Shenzhen Branch
TÜV SÜD Group
6th Floor, H Hall, Century Craftwork Culture Square,
No. 4001, Fuqiang Road, Futian District,
Shenzhen 518048, P. R. China

Tel.: (86) 755 88286998
Fax: (86) 755 88285299

1. TESTED SUBJECT DESCRIPTION

PRODUCT	DESCRIPTION	PHOTO
A	Laser meter (CA770)	
B	Laser meter (CA740)	

2. TEST RESULTS

2.1 REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN OCTOBER 2008 BY ECHA

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spectrometer (XRF). [Reporting limit: 0.1%]

SUBSTANCE NAME	CAS No.	EINECS No.	RESULT [%]	
			PRODUCT A	PRODUCT B
Anthracene	120-12-7	204-371-1	<0.1	<0.1
4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	<0.1	<0.1
Dibutyl phthalate (DBP)	84-74-2	201-557-4	<0.1	<0.1
Cobalt dichloride*	7646-79-9	231-589-4	<0.1	<0.1
Diarsenic pentaoxide*	1303-28-2	215-116-9	<0.1	<0.1
Diarsenic trioxide*	1327-53-3	215-481-4	<0.1	<0.1
Sodium dichromate*	7789-12-0 and 10588-01-9	234-190-3	<0.1	<0.1
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	<0.1	<0.1
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	<0.1	<0.1
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-HBCDD, Beta-HBCDD, Gamma-HBCDD	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	247-148-4 and 221-695-9	<0.1	<0.1
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	<0.1	<0.1
Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	<0.1	<0.1
Lead hydrogen arsenate*	7784-40-9	232-064-2	<0.1	<0.1
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	<0.1	<0.1
Triethyl arsenate*	15606-95-8	427-700-2	<0.1	<0.1

Note:

- “%” denotes percent by weight
- “<” denotes less than
- “*” denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

2.2 REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JANUARY 2010 AND MARCH 2010 BY ECHA

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spectrometer (XRF). [Reporting limit: 0.1%]

SUBSTANCE NAME	CAS No.	EINECS No.	RESULT [%]	
			PRODUCT A	PRODUCT B
Anthracene oil	90640-80-5	292-602-7	<0.1	<0.1
Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	<0.1	<0.1
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	<0.1	<0.1
Anthracene oil, anthracene-low	90640-82-7	292-604-8	<0.1	<0.1
Anthracene oil, anthracene paste	90640-81-6	292-603-2	<0.1	<0.1
Pitch, coal tar, high temp.	65996-93-2	266-028-2	<0.1	<0.1
2,4-Dinitrotoluene	121-14-2	204-450-0	<0.1	<0.1
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	<0.1	<0.1
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	<0.1	<0.1
Lead chromate*	7758-97-6	231-846-0	<0.1	<0.1
Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	<0.1	<0.1
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	<0.1	<0.1
Aluminosilicate Refractory Ceramic Fibres*	---	---	<0.1	<0.1
Zirconia Aluminosilicate, Refractory Ceramic Fibers*	---	---	<0.1	<0.1
Acrylamide	79-06-1	201-173-7	<0.1	<0.1

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2.3 REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2010 BY ECHA

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spectrometer (XRF). [Reporting limit: 0.1%]

SUBSTANCE NAME	CAS No.	EINECS No.	RESULT [%]	
			PRODUCT A	PRODUCT B
Trichloroethylene	79-01-6	201-167-4	<0.1	<0.1
Boric acid*	10043-35-3 11113-50-1	233-139-2 234-343-4	<0.1	<0.1
Disodium tetraborate, anhydrous*	1330-43-4 12179-04-3 1303-96-4	215-540-4	<0.1	<0.1
Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	<0.1	<0.1
Sodium chromate*	7775-11-3	231-889-5	<0.1	<0.1
Potassium chromate*	7789-00-6	232-140-5	<0.1	<0.1
Ammonium dichromate*	7789-9-5	232-143-1	<0.1	<0.1
Potassium dichromate*	7778-50-9	231-906-6	<0.1	<0.1

Note:

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- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

2.4 REACH PROPOSAL SVHCS ON THE CANDIDATE LIST, PUBLISHED IN DECEMBER 2010 BY ECHA

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spectrometer (XRF). [Reporting limit: 0.1%]

SUBSTANCE NAME	CAS No.	EINECS No.	RESULT [%]	
			PRODUCT A	PRODUCT B
Cobalt(II) sulphate*	10124-43-3	233-334-2	<0.1	<0.1
Cobalt(II) dinitrate*	10141-05-6	233-402-1	<0.1	<0.1
Cobalt(II) carbonate*	513-79-1	208-169-4	<0.1	<0.1
Cobalt(II) diacetate*	71-48-7	200-755-8	<0.1	<0.1
2-Methoxyethanol	109-86-4	203-713-7	<0.1	<0.1
2-Ethoxyethanol	110-80-5	203-804-1	<0.1	<0.1
Chromium trioxide*	1333-82-0	215-607-8	<0.1	<0.1
Acids generated from chromium trioxide and their oligomers*	7738-94-5 13530-68-2 not yet assigned	231-801-5 236-881-5 not yet assigned	<0.1	<0.1

Note:

- “%” denotes percent by weight
- “<” denotes less than
- “*” denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

Jiangsu TÜV Product Service Ltd. Shenzhen Branch
TÜV SÜD Group

Prepared by:

Scarlett




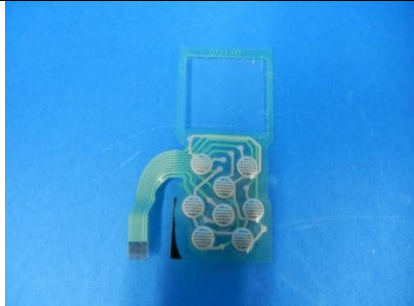
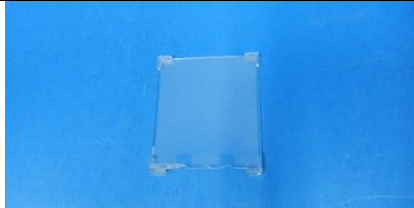


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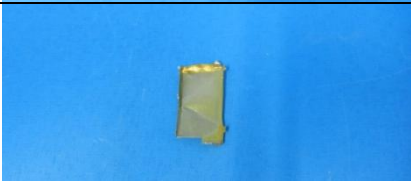
Mario

Scarlett Liang
Project Engineer
Chemical Department

Mario Ma
Project Manager
Chemical Department

APPENDIX I - BREAKDOWN OF PRODUCT

SAMPLE NUMBER	TESTED MATERIAL DESCRIPTION	PHOTO
001	Transparent plastic with black coating (control panel)	
002	White plastic (front cover)	
003	Black plastic (back cover)	
004	Transparent plastic	
005	Light green plastic with white and green coating	
006	Transparent plastic(display screen)	
007	Blue glass (display screen)	
008	Black plastic frame	
009	PCB with unit	
010	Transparent plastic with blue coating (control panel)	
011	Blue plastic (back cover)	

SAMPLE NUMBER	TESTED MATERIAL DESCRIPTION	PHOTO
012	Silvery metal contact sheet and spring	
013	Golden metal enclosure	
014	Silvery metal screw	