

Test Report No. 2077660

Date : 5-Sep-2011

Page 1 of 7

Client : HI-GRIMM ENVIRONMENTAL AND RESEARCH CO.,LTD
111 Thailand Science Park, Incubator Wing Bldg. Room310 , 3rd Floor Paholyothin Rd.
Klong Neung, Klong Luang Pathumthani 12120 Thailand

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : KEEEN Part Cleaner (Bioremediation Agent)

Sample No. : 2135673

Sample Condition : As per attached photograph

Manufacturer/Vendor : Hi-Grimm Environmental and Research

Sample Receiving Date : 30-Aug-2011

Testing Period : 30-Aug-2011 to 01-Sep-2011

Test Requested : In accordance with the ELV Directive 2000/53/EC and its amendment directives

Test Method : (1) With reference to EPA Method 3052 for Lead Content Analysis was performed by ICP-OES.
(2) With reference to EPA Method 3052 for Cadmium Content Analysis was performed by ICP-OES.
(3) With reference to EPA Method 3052 for Mercury Content. Analysis was performed by ICP-OES.
(4) With reference to EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.
(5) With reference to USEPA 3540C for PBB/PBDE content. Analysis was performed by GC/MS.

Test Results : Please refer to next page.

Signed for and on behalf of
SGS (Thailand) Limited



Pornpana Lirathpong
Hardlines Testing Manager

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TEST RESULTS

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	ELV Limit
Lead (Pb)	(1)	n.d.	2	1000
Cadmium (Cd)	(2)	n.d.	2	100
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium (CrVI)	(4)	n.d.	2	1000
sum of PBBs	(5)	n.d.	-	-
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	-
Tribromobiphenyl		n.d.	5	-
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	-
Hexabromobiphenyl		n.d.	5	-
Heptabromobiphenyl		n.d.	5	-
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	-
Decabromobiphenyl		n.d.	5	-

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1779373

TEST RESULTS

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	ELV Limit
Sum of PBDEs	(5)	n.d.	-	-
Monobromodiphenyl ether		n.d.	5	-
Dibromodiphenyl ether		n.d.	5	-
Tribromodiphenyl ether		n.d.	5	-
Tetrabromodiphenyl ether		n.d.	5	-
Pentabromodiphenyl ether		n.d.	5	-
Hexabromodiphenyl ether		n.d.	5	-
Heptabromodiphenyl ether		n.d.	5	-
Octabromodiphenyl ether		n.d.	5	-
Nonabromodiphenyl ether		n.d.	5	-
Decabromodiphenyl ether		n.d.	5	-

Test Part Description
Result (1) clear liquid

Note :

- (1) mg/kg = ppm
- (2) The results shown are based on the total weight of wet sample
- (3) n.d. = Not Detected
- (4) MDL = Method Detection Limit
- (5) "-" = Not regulated

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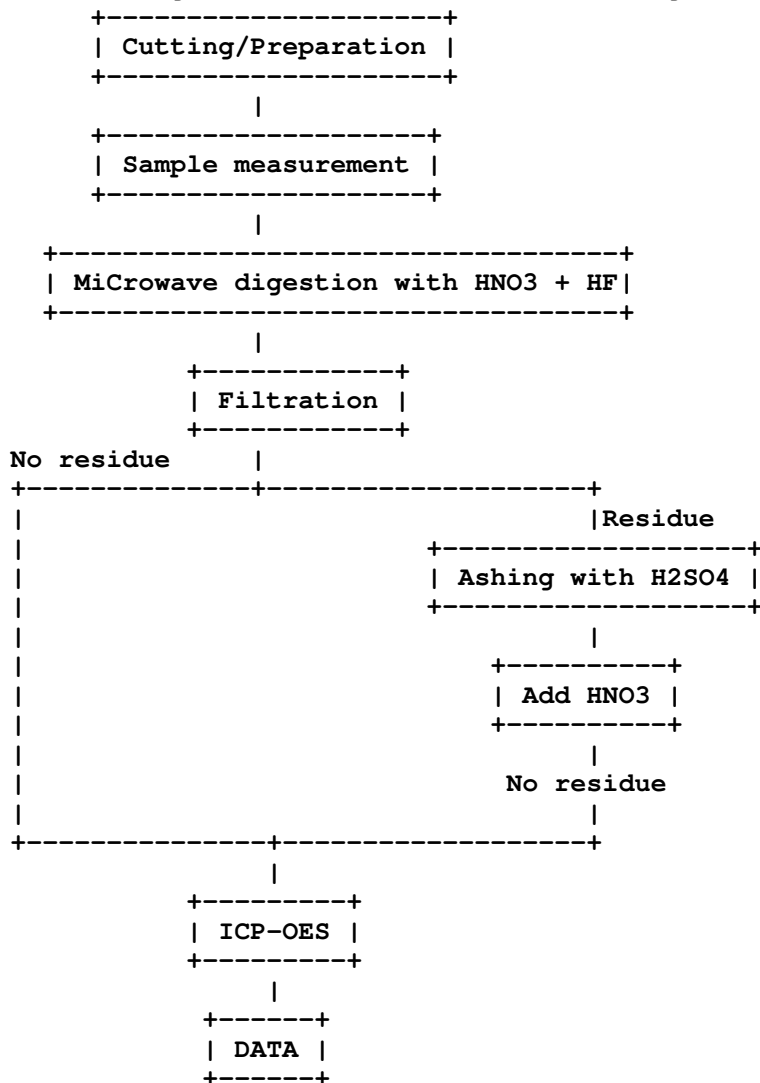
1779373

Test Report No. 2077660

Date : 5-Sep-2011

Page 4 of 7

Flow chart of digestion (EPA 3052 for Pb, Cd, Hg)



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Siam Polarwut
 Section Chief : Laddawan Uranpitr

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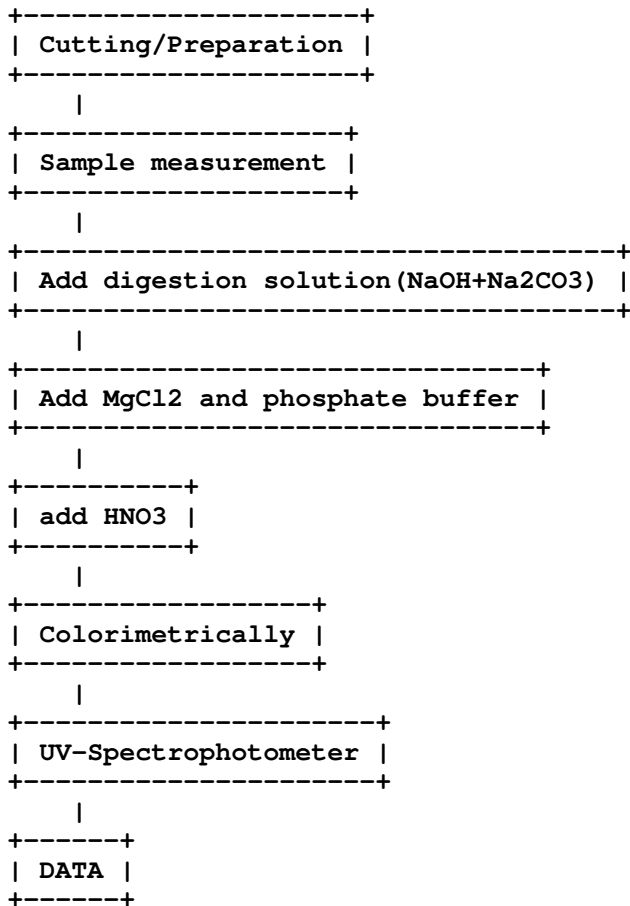
1779373

Test Report No. 2077660

Date : 5-Sep-2011

Page 5 of 7

Flow chart of digestion (EPA 3060A, 7196A for Cr(VI))



Operator : Siam Polarwut
 Section Chief : Laddawan Uranpitr

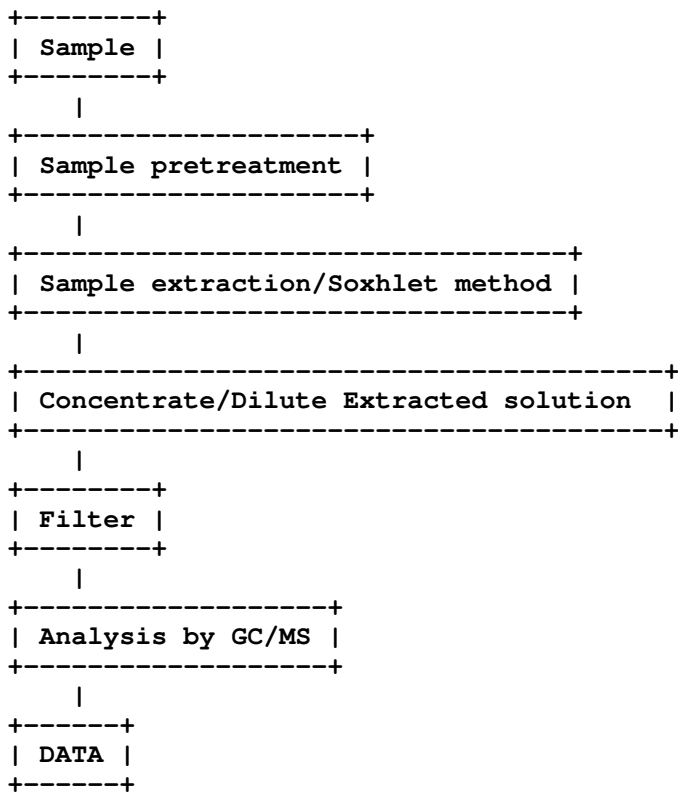
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Flow chart of PBBs/PBDEs



Operator : Rattaya Khantama
 Section Chief : Waranchote Pananuraksa

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SAMPLE/ATTACHMENT PICTURE



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

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No. 0306/ 9550

To KEEEN LIMITED

The Department of Science Service presents the test report for the sample named "KEEEN PARTS CLEANER" Laboratory No. L58/02994.1 as the total of 1 sample with reference to the request No. L58/02994 dated 22 May 2015.

Enclosed herewith the following result avails for your acknowledgement.



Chongpa Tamcengong
Director

Chemistry Program
Tel. 0 2201 7211-2
Fax 0 2201 7213
E-mail : chemistry@dss.go.th



TEST REPORT

Sample's name	Mark / Brand	Laboratory No.
KEEEN PARTS CLEANER	KEEEN	L58/02994.1

Test Result

		Limit of detection
1. Arsenic (As), mg/kg	not detected	0.02
2. Cadmium (Cd), mg/kg	not detected	0.40
3. Chromium (Cr), mg/kg	not detected	1.0
4. Nickel (Ni), mg/kg	not detected	1.0
5. Lead (Pb), mg/kg	not detected	1.0
6. Selenium (Se), mg/kg	not detected	0.05
7. Mercury (Hg), mg/kg	not detected	0.05

Customer's name	KEEEN LIMITED
Customer's address	86, 88, 90, Chaloeprakiat Rama 9 Rd., Nongbon, Prawet, Bangkok 10250
Sample's description	Clear colorless liquid
Test date	17 June – 28 July 2015
Test method	1. The items 1 – 6 were determined by atomic absorption spectroscopy. 2. The item 7 was determined by mercury analyzer.

Approved by

Komson Tanyuenyong
(Mr. Komson Tanyuenyong)

Scientist, Senior Professional Level

Reported by

Sorada Khunhon
(Miss Sorada Khunhon)

Scientist, Senior Professional Level

This report is only valid for the sample received. The above statement is not intended for advertising purposes and shall not be reproduced or shall not manifest partially without the written permission of the Department of Science Service.



No. 0306/ 4724

To KEEEN Co., Ltd.

The Department of Science Service presents the test report for the sample named "PARTS CLEANER" Laboratory No. L58/00535.1 as the total of 1 sample with reference to the request No. L58/00535 dated 27 January 2015.

Enclosed herewith the following result avails for your acknowledgement.

Department of Science Service



Vannapa Tanyongyong
Acting Director

Chemistry Program

Tel. 0 2201 7211-2

Fax 0 2201 7213

E-mail : chemistry@dss.go.th



Department of Science Service

TEST REPORT

Department of Science Service

Sample's name
PARTS CLEANER

Mark / Brand
KEEEN

Department of Science Service
Laboratory No.
L58/00535.1

Test Result

Department of Science Service

Biodegradability of nonionic surfactant, % 85

Customer's name KEEEN Co., Ltd.
Customer's address 999 Biotechnology Factory Building, Mahidol University,
Phutthamonthon Sai 4 Rd., Salaya, Phutthamonthon,
Nakhon Pathom 73170
Sample's description Viscous liquid with slightly white turbidity
Test date 2 March – 2 April 2015
Test method TIS 578-2006 : Method for analysis and test of laundry detergent
powder

Department of Science Service

Department of Science Service

Department of Science Service

Department of Science Service

Approved by

(Mr. Komson Tanyuenyong)

Scientist, Senior Professional Level

Reported by

(Miss Khanit Panchoowong)

Scientist, Professional level

Department of Science Service

Department of Science Service

Department of Science Service

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Microbiological report
Microbiology Laboratory, Department of Pathology
Faculty of Medicine, Ramathibodi Hospital, Mahidol University

Specimen received date: 8 July 2014
Analytical date: 8-13 July 2014
Sent by: KEEEN Limited
Details of specimen: PARTS CLEANER
Lot. No.: 010414-015-020-3
Request for: *Bacillus anthracis*
Laboratory accession no.: 0-1855 (8 July 2014)
Analytical methods: Bacterial culture, Gram staining and biochemical tests
Reported date: 13 July 2014
Result: No growth for *Bacillus anthracis*

Analyzed by

SUPAWAN BOONSONG

Miss. Supawan boonsong
Senior Medical Laboratory Technician

Approved by

Pitak Santanirand, Ph.D.
Director of Microbiology Laboratory