



LEMBAGA GETAH MALAYSIA
MALAYSIAN RUBBER BOARD
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MS ISO/IEC 17025
TESTING
SAMM NO.059

Our report no. : LGM/BTK/UPB/5.10/CP/1302/0297
Your reference :

SEMPERIT TECHNISCHE PRODUKTE GESELLSCHAFT m.b.H
MARGIT SCHWARZ
SEGMENT SEMPERMED
TRIESTER BUNDESSTRAB 26
A 2632 WIMPASSING

Fax No. :432630310479

ANALYTICAL RESULT

We have received one sample from you under covering letter dated 04/02/2013 . The sample was analyzed as per your request. The results are reported below.

Sample Description : OCNLFT63GB2=NOT-C0563

Date Received : 19/02/2013

No.	Chemical Test	Results	Test Method	Date Tested
1	Antioxidant 2246 (A/O 2246) (%)	ND	UPB/P/002	22/2/13
2	Butylated hydroxyanisole (BHA) (%)	ND	UPB/P/002	22/2/13
3	Butylated hydroxytoluene (BHT) (%)	ND	UPB/P/002	22/2/13
4	Diphenyl Guanidine (DPG) (%)	ND	UPB/P/002	22/2/13
5	Dipentamethylene thiuram tetrasulphide (%)	ND	UPB/P/002	22/2/13
6	Diphenyl Thiourea (DPTU) (%)	ND	UPB/P/002	22/2/13
7	Mercaptobenzothiazole (MBT) (%)	ND	UPB/P/002	22/2/13
8	Tetramethylthiuram disulphide (TMTD) (%)	ND	UPB/P/002	22/2/13
9	Wingstay L (%)	1.05	UPB/P/002	22/2/13
10	Zinc dibenzylthiocarbamate (ZBED) (%)	ND	UPB/P/002	22/2/13
11	Zinc dibutylthiocarbamate (ZDBC) (%)	ND	UPB/P/002	22/2/13
12	Zinc diethyldithiocarbamate (ZDEC) (%)	0.42	UPB/P/002	22/2/13
13	Zinc dimethyldithiocarbamate (ZDMC) (%)	ND	UPB/P/002	22/2/13
14	Zinc mercaptobenzothiazole (ZMBT) (%)	ND	UPB/P/002	22/2/13
15	Zinc methylmercaptobenzimidazole (ZMMBI) (%)	ND	UPB/P/002	22/2/13
16	Zinc pentamethylenedithiocarbamate(ZPMC) (%)	ND	UPB/P/002	22/2/13

Five g sample was extracted overnight. The extract was rotary evaporated to near dryness and then made up to 5 mL in acetone. 5 microliters aliquot was spotted on TLC plate. The identity and concentration of the chemicals were determined by comparing them to authentic reference material. Chemical determined as Nd is either not present or the concentration is below the detectable limit of 0.01%.




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TESTING
SAMM NO.069

"BERKHIDMAT UNTUK NEGARA"


Dr Faridah Hanim Ab Hanan
Head of Unit
Materials Characterization Unit
For Director-General

Date of reporting
22-February-2013