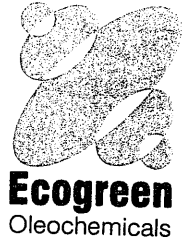


PT Ecogreen Oleochemicals



CERTIFICATE OF ANALYSIS

DESCRIPTION : 7.2 M/T OF CETYL ALCOHOL (ECOROL 16/98P)

Date : 25.08.2015

HS CODE : 2905.17.2000 L/C NO. M07P21507NU00089 ORIGIN : INDONESIA MAKER : PT. ECOGREEN OLEOCHEMICALS

1-030

MANUFACTURER : PT ECOGREEN OLEOCHEMICALS

SPEC. NO. : 3160-12

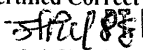
REFERENCE : 1010704994 / 2010704994

CUST. PO NO. : KAC-15070307

CONTAINER NO. BATCH NO. QUANTITY
EMCU 6052272 B509-B 360 BAG

Analysis	Test Method	Specification		B509-B
		Min	Max	
Homolog Distribution (wt%) :	Gas Chromatography			
C14 & lower			2.0	0.4
C16		98.0		99.0
C18 & higher			2.0	0.6
Hydrocarbons (wt%)	Gas Chromatography		0.50	0.17
Acid Value (mg KOH/g)	AOCS Te 2a-64; DIN 53 402		0.10	0.01
Saponification Value (mg KOH/g)	AOCS T1 1a-64; DIN 53 401		0.50	0.10
Iodine Value (g I2/100 g)	AOCS Cd 1b-87		0.10	0.01
Moisture (wt%)	Karl Fisher Method; DIN 51 777/T1		0.30	0.20
Color, APHA	AOCS Ea 9-65; DIN ISO 6271		10	3
Solidification point (°C)	AOCS Cc 12-59; DIN ISO 3841	48.0	50.0	49.0
Hydroxyl Value (mg KOH/g)	Calculated from GC analysis result	228	232	231

Certified Correct :

 Ecogreen Oleochemicals
Syukri Chaniago

Head of Quality Assurance

CONTROLLED SYSTEM PRINTOUT - VALID WITHOUT SIGNATURE

SHIPMENT LOT NO. : B1507-3160P-15

BATAM PLANT

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ISO 9001 ISO 14001 ISO 22000