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DATE: 05/08/2017

REF: 17160701-01

CERTIFICATE OF ANALYSIS

CUSTOMER : COMERCIALIZADORA RAHCO 1010, C.A.
GOODS : COCODIETHANOLAMIDE
VESSEL : MAYMYO STAR V.368/S
CONTAINER / BATCH NO. : 1) ZIMU2950001/ D170718-33-1
TOTAL NO. OF PACKAGES : 80 DRUMS
(80 DRUMBS/CONTAINER)
PACKED IN 200 KGS NEW
HDPE DRUMS
PRODUCTION DATE : 16TH JULY 2017
EXPIRY DATE : 15TH JULY 2019

ANALYSIS RESULTS OF:

PARAMETERS	TEST METHODS	SPECIFICATION	RESULTS
APPEARANCE AT 25°C	Visual	Clear Yellowish Liquid	Clear Yellowish Liquid
AMIDE CONTENT, % WT	Calculation	82% Min	86.54
FREE AMINE, WT %	AOCS Te 3a-64	5.0 Max	4.02
WATER, %WT	AOCS 5th Edition Ca2e-84	0.4 Max	0.16
FREE FATTY ACID, %WT	AOCS Ca 5a-40	0.5 Max	0.05
pH	USP 38	9.0-12.0	10.3
GLYCEROL, %WT	AOCS Ea 6-51	8.0-10.0	9.23