



**PT PERMATA HIJAU PALM OLEO**

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Date: September 29, 2017

**CERTIFICATE OF QUALITY**

DESCRIPTION OF GOODS : 5X20 FCL : 100MTS = 400 DRUMS  
 UNDER CONTRACT NO.:SH/17/0824/002/C11  
 COMMODITY: REFINED GLYCERINE 99.7PCT-PALMATA 9970  
 TOTAL QUANTITY: 100MTS  
 PACKING: IN PRINTED STEEL DRUMS 400DRUMS X 250KGS/DRUM  
 MARKING:  
 MADE IN INDONESIA  
 FOR INDUSTRIAL USE ONLY

VESSEL NAME : CTP DELTA V.196W  
 SHIPMENT DATE : 29 SEPTEMBER 2017  
 LOAD PORT : BELAWAN PORT IN INDONESIA  
 DISCHARGE PORT : HONG KONG  
 PLACE OF DELIVERY : HUANGPU PORT, CHINA  
 CONTAINER NOS. / SEAL NOS. : 1. TCLU3920464 / MOLBU65145  
 2. CAIU3198252 / MOLBU65142  
 3. DRYU3102694 / MOLBU65141  
 4. TEMU5060585 / MOLBU65144  
 5. MOAU1457812 / MOLBU65143

LOT NO : 17IDK013GL  
 MANUFACTURING DATE : 13 SEPTEMBER 2017  
 EXPIRY DATE : 13 SEPTEMBER 2019

Chemical Properties	Method	Specified Range	Result
Assay (% Glycerine on Anhydrous Basis)	USP 39	99.7 min	99.91
Specific Gravity, 25°C	USP 39 (841)	1.2613 min	1.2618
Water, % wt	USP 39 (921) Method I	0.3 max	0.08
Color APHA	LICO 690	10 max	1.0
Residue on Ignition, % wt	USP 39 (281)	0.01 max	0.004
Chlorides, ppm	USP 39 (221)	10 max	< 10
Sulphates, ppm	USP 39 (221)	20 max	< 20
Chlorinated Compound, ppm as Cl	USP 39	30 max	< 30
Fatty Acid & Esters, ml 0.5 N NaOH	USP 39 (541)	1 max	0.39
Identification by IR	USP 39 (197F)	Infrared Spectrum	Passed
Identification by GC	USP 39 (621)	Passes test as glycerin	Passes test
Diethylene glycol and ethylene glycol, % wt	USP 39	Diethylene glycol and ethylene glycol 0.1% max	0.0
Organic Impurities, % wt	USP 39	Individual impurities 0.1% max Sum of all impurities 1.0% max	0.0 0.0

We hereby certify the analysis of the sample as shown above

By Manufacturer

PT. PERMATA HIJAU PALM OLEO



OIC QA Superintendent