



PT PERMATA HIJAU PALM OLEO

ORIGINAL

CERTIFICATE OF ANALYSIS

DESCRIPTION OF GOODS

: 10X20'FCL : 200 MT = 800 DRUMS
NAME OF COMMODITY: REFINED GLYCERINE 99.7PCT-PALMATA 9970
PACKING: IN PRINTED STEEL DRUMS QUANTITY: 200 MT
COUNTRY OF ORIGIN: INDONESIA
CONTRACT NO. SH/17/0522/005/C11
LC NO. 11162010014674 DATED 170602
MARKING:
FOR INDUSTRY USE ONLY
NOT FOR HUMAN FOOD OR ANIMAL FEED (MANDARIN FONTS)

VESSEL NAME

: PEARL RIVER BRIDGE V.427N

LOAD PORT

: BELAWAN INDONESIA PORT

DISCHARGE PORT

: SHANGHAI, CHINA

CONTAINER NOS. / SEAL NOS.

: 1. DFSU2941555 / WHL1424364 6. WHLU2638680 / WHL1424369
2. GLDU9668579 / WHL1424361 7. WHLU2717753 / WHL1424367
3. TGHU1764778 / WHL1424366 8. WHLU2883163 / WHL1424365
4. WHLU0548422 / WHL1424363 9. WHLU2915168 / WHL1424370
5. WHLU0584287 / WHL1424368 10. WHLU2942100 / WHL1424362

LOT NO

: 17FD003GL

Chemical / Physical Properties	Method	Specified Range	Lot No 17FD003GL	Lot No 17FD004GL
Assay (% Glycerine on Anhydrous Basis)	USP 39	99.7 min	99.91	99.88
Specific Gravity, 25°C	USP 39 (841)	1.2613 min	1.2618	1.2617
Water, % wt	USP 39 (921) Method I	0.3 max	0.08	0.11
Color APHA	USP 39	10 max	1.0	1.0
Residue on Ignition, % wt	USP 39 (281)	0.01 max	0.004	0.004
Chlorides, ppm	USP 39 (221)	10 max	< 10	< 10
Sulphates, ppm	USP 39 (221)	20 max	< 20	< 20
Chlorinated Compound, ppm as Cl	USP 39	30 max	< 30	< 30
Fatty Acid & Esters, ml 0.5 N NaOH	USP 39 (541)	1 max	0.39	0.37
Identification by IR	USP 39 (197F)	Infrared Spectrum	Passed	Passed
Identification by GC	USP 39 (621)	Passes test as glycerin	Passes test	Passes test
Diethylene glycol and ethylene glycol, % wt	USP 39	Diethylene glycol and ethylene glycol 0.1% max	0.0	0.0
Organic Impurities, % wt	USP 39	Individual impurities 0.1% max Sum of all impurities 1.0% max	0.0 0.0	0.0 0.0

We hereby certify the analysis of the sample as shown above

(ISSUED BY MANUFACTURER)

PT. PERMATA HIJAU PALM OLEO



OIC QA Superintendent