



DATE : 14 FEBRUARY 2013

**CERTIFICATE OF ANALYSIS**

QUANTITY/COMMODITY : 60 MT (240 DRUMS)  
REFINED GLYCERINE 99.7% (USP GRADE)

PACKING : IN 250KG NEW LINED STEEL DRUMS PALLETIZED

CONTAINER / BATCH NO : GLDU 5660482 (G130205-2); GLDU 5680880 (G130205-3);  
XINU 1587790 (G130205-4)

PRODUCTION DATE : FEBRUARY 05, 2013

EXPIRY DATE : FEBRUARY 05, 2014

VESSEL : JINYUNHE V.204 / APL NINGBO V.018

BUYER PO NUMBER : TD0113HOU1

A COMPOSITE SAMPLE WAS DRAWN FROM THE ABOVE-MENTIONED CONSIGNMENT FOR ANALYSIS. ON ANALYSIS THE FOLLOWING RESULTS WERE OBTAINED :

<u>SPECIFICATIONS</u>	<u>Specification</u>	<u>Result</u>
Appearance	Transparent	Transparent
Identification A (IR)	Conform	Conform
Identification B		
- Diethylene Glycol (%)	0.10 max	<0.10
- Ethylene Glycol (%)	0.10 max	<0.10
Glycerine Content (%)	99.7 min	99.8
Inorganic Impurities :		
- Chloride (ppm)	10 max	<10
- Sulfate (ppm)	20 max	<20
- Heavy Metal as Pb (ppm)	5 max	<5
- Residue on Ignition (%)	0.01 max	0.009
Organic Impurities :		
- Individual Impurities (%)	0.10 max	NIL
- Total Impurities (%)	1.0 max	NIL
- Chlorinated Compounds (ppm)	30 max	<30
- Related Compounds	Pass	Pass
Fatty Acids & Esters (as mL of 0.5N NaOH/50 g)	1 max	0.31
Color (mL FeCl <sub>3</sub> )	0.4 max	<0.4
Specific Gravity @ 25 °C	1.2607 min	1.2614
Moisture Content (%)	0.3 max	0.10