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ATLANTA WAREHOUSE

3939 Royal Drive, Ste 224 and 226 Kennesaw, GA 30144

UTAH WAREHOUSE

647 West Billinis Road, Unit 1 Salt Lake City, Utah 84119

Certificate Of Analysis

Batch Number Vehicle Number Estimated Quantity : 499204 Propylene Glycol USP/EP : BL50213524 : RACX 51981 : 189,224 LBS

Customer Order No.	: 4700061101
Customer Number	: 152134
Date Shipped	: February 17, 2015
Lyondell Order No.	: 3674798 000010
Delivery Item No.	: 86951417 000010

Test Description	Test Result	Specifications		Unit of
		Minimum	Maximum	Measure
Vehicle Type	TANK CAR			
Vehicle ID	RACX 51981			
Lot Number	SEE NOTE / EXPLANATIONS BEL	OW		
Inspection Lot	1770741			
Manufacturing Date	20150213			
Expiration Date	20170213			
Acidity as acetic acid	0.0006		0.0020	weight %
Appearance	Pass	Pass		
Assay as PG, on a dry basis	99.94	99.90		weight %
PG Retention Time, ID Test C	Pass	Pass		
Chlorides	< 0.5		0.5	ppm
Color, Pt-Co	5		10	APHA Color
Heavy Metals as Pb	<1		5	weight ppm
Iron	< 0.01		0.50	weight ppm
Odor	Pass	Pass		
Suspended matter	Pass	Pass		
Residual Solvents	Pass	Pass		
Delivery Number:		Cust/PO Number:		

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