

	<p>These specifications/special requirement(s) are applicable specifically to LyondellBasell facilities for loading or unloading a tank trailer at a LyondellBasell site or a contracted 3PL location as applicable</p>	
<p>TANK TRAILER SPECIFICATION</p>		
<p><b>PRODUCT</b></p>	<p><b>ETHANOL (PURE)</b></p>	<p><b>PURE ETHANOL</b></p>
<p>Material Characteristic and immediate hazard</p>	<p>See Product SDS</p>	
<p>DOT SPECIFICATION</p>	<p>MC 307, DOT 407, STAINLESS STEEL</p>	
<p>INSULATION</p>	<p>PREFERRED BUT NOT REQUIRED</p>	
<p>HEATING CAPABILITIES</p>	<p>NOT REQUIRED</p>	
<p>GASKET MATERIAL</p>	<p>TEFLON ROPE, VIRGIN TEFLON, WHITE BUNA, EPDM, **DOME GASKET AND ALL OPENINGS TO TRAILER MUST PROVIDE A LEAK FREE TIGHT SEAL UPON PRE AND POST LOADING. DOME LID MUST HAVE SEAL POINTS.</p>	
<p>CONNECTIONS/FITTINGS</p>	<p>ALL MUST BE STAINLESS STEEL, W/DUST CAPS W/SEAL PONTS ON ALL OUTLETS OF THE TRAILER, CAPABLE OF BEING SEALED WITH 1/8" WIRE CABLE SEAL</p>	
<p>LIQUID CONNECTION</p>	<p>3 "MALE CAMLOCK, (QUICK CONNECT), W/DUST CAP - BOTTOM REAR LOADER, (CENTER LOADER MUST BE APPROVED). <b>NOTE:</b> CUSTOMER MAY HAVE SPECIFIC EQUIPMENT REQUIREMENTS. MUST HAVE SEAL POINTS</p>	
<p>VAPOR CONNECTION</p>	<p>2" MALE CAMLOCK (QUICK CONNECT), W/DUST CAP, WITH PIPING TO GRADE LEVEL, WITH 2" SS ISOLATION VALVE UPSTREAM OF FITTING, (INLINE PRESSURE GAUGE @ GRADE LEVEL PREFERRED). 2" WITH DUST CAP, (MUST BE ABLE TO SEAL), STANDARD 3/4" TOP VAPOR CONNTECTION MAYBE ACCEPTABLE</p>	
<p>NITROGEN PADDING</p>	<p>5-7 PSIG NITROGEN PAD UPON ARRIVAL</p>	
<p>TANK CLEANLINESS</p>	<p>TRAILER MUST BE CLEAN, DRY AND ODOR FREE. FOOD GRADE OR KOSHER CLEANING/WASH CERTIFICATE MUST BE PRESENTED WITH TRAILER. ***IF TRAILER IS DEDICATED, A RE-LOAD SHEET OR COPY OF LYONDELLBASELL BOL FROM PREVIOUS 3 LOADS MUST BE PRESENTED. <b>**NOTE:</b> THIS PRODUCT DOES HAVE PROHIBITED PRIOR PRODUCTS. <b>NOTE:</b> TECHNICAL SERVICE MUST BE NOTIFIED WHEN A CLEAN TRAILER IS INTRODUCE INTO PGUSP SERVICES TO DETERMINE IF "PICKLING" IS NECESSARY OR TO OBTAIN ANY TYPE OF WAIVER. <b>ADDITIONAL NOTE:</b> CPU AND/OR CLEAN TRAILER MUST HAVE ALL OPENING COMPLETELY SEALED AFTER FOOD GRADE CLEANING, PRIOR TO ARRIVING AT LYB LOADING FACILITY.</p>	
<p>STRAPPING CHART W/DRIVER</p>	<p>YES</p>	
<p>HOSES</p>	<p>HOSE(S) ARE NOT REQUIRED AT LYONDELLBASELL LOADING FACILITIES. PLEASE NOTE: THERE MAY BE SPECIFIC HOSE(S) REQUIREMENTS FOR CUSTOMER THAT SHOULD BE NOTED IN THE CARRIER INSTRUCTIONS OF THE LYONDELLBASELL SHIPPING DOCUMENT.</p>	
<p>ADDITIONAL APPURTENANCES</p>	<p>NONE FOR LYONDELLBASELL. NOTE: IT IS RECOMMENDED THAT TRAILER IS EQUIPPED WITH DUAL INLINE AIRLINE FILTERS (MINIMUM 15 MICRON SS INLINE) ON AIRLINE WHEN OFF-LOADING IS TO BE DONE WITH AIR OR NITROGEN. IT IS ALSO RECOMMENDED THE TRUCK/TRACTOR IS EQUIPPED WITH A SS PUMP IF DRIVER IS TO OFF-LOAD VIA TRUCK PUMP; TO MAINTAIN PRODUCT QUALITY</p>	
<p>OTHER</p>	<p>MUST HAVE SAP CURRENT AND MATCHING SAP SHIPPING NOTICE, TRANSWIDE CALL-OFF, OR CARRIER MANIFEST DOCUMENT. **DRIVER MUST ARRIVE AT PICKUP POINT AT SCHEDULED TIME. **DRIVER MUST ALWAYS NOTIFY LYONDELL OF ANY REQUESTED LIGHT LOADING DUE TO POTENTIAL EXCEEDING LEGAL GROSS WEIGHT. PLEASE CONTACT LYONDELLBASELL LOGISTICS WITH ANY QUESTIONS. <b>TRAILER MUST BE COMPLETELY RE-SEALED UPON LOADING/UNLOADING. NOTE:</b> RETURN SEALS MUST BE PROVIDED FOR DEDICATED EQUIPMENT; DRIVER IS RESPONSIBLE TO ENSURE RETURN SEALS ARE INSTALLED ON EQUIPMENT PRIOR TO LEAVING DELIVERY SITE.</p>	
<p>PROHIBITED</p>	<p>NO ADDITIONAL PERSONNEL UNLESS TEAM DRIVER, PETS ARE PROHIBITED. <b>NOTE:</b> CARRIER MUST REVIEW SHEET #2 FOR (PROHIBITED AND/OR ACCEPTABLE PRIORS); CARRIER MUST SEE <b>TAB #2</b></p>	

**CARRIER MUST READ AND COMPLETELY UNDERSTAND THE BELOW INFORMATION PRIOR TO PREPARING AND SENDING A TRAILER TO LYONDELLBASELL FACILITY TO LOAD PURE ETHANOL**

**IF THE TRAILER IS CLEAN AND NOT IN DEDICATED SERVICE: PLEASE NOTE: ACCEPTABLE LAST 3 PRIOR CARGOES. ALL LAST 3 PRIOR CARGOES MUST BE CHECKED FOR COMPATIBILITY BY LYONDELLBASELL TECHNICAL SERVICE MANAGER UNLESS TRAILER IS IN A LYONDELLBASELL DEDICATED SERVICE.**

**FOOD OR PHARMA GRADE PRODUCTS (SOME EXAMPLES LISTED BELOW)**

PGUSP  
PURE ETHANOL, ETHANOL, OR ISOPROPYL ALCOHOL  
GLYCERINE ( SYNTHETIC ONLY)  
ETHYL ALCOHOL (NOT SDA OR DENATURED)  
PHOSPHORIC ACID (FOOD GRADE ONLY)  
SUCROSE  
FRUIT JUICES OR JUICE CONCENTRATES  
HONEY  
SORBITOL  
MOLASSES  
VINEGAR  
POTABLE WATER  
POLYPROPYLENE GLYCOLS (FOOD GRADE ONLY)

**DISCLAIMER:** ACCEPTANCE BY LYONDELL OF A PARTICULAR PRIOR CARGO DOES NOT RELIEVE THE CARRIER OF RESPONSIBILITY FOR CONTAMINATION OF THE PRODUCT BY A PRIOR CARGO. THE INTENT OF THE RESTRICTIONS ON PRIOR CARGOES IS TO PREVENT CONTAMINATION OF PURE ETHANOL BY ANY MATERIAL WHICH WOULD BE AN OBJECTIONABLE IMPURITY IF PRESENT EVEN IN TRACE AMOUNTS.

**NONE ACCEPTABLE LAST PRIOR CARGOES; THESE ARE KNOWN CONTAMINATES OF PURE ETHANOL. ALL PRIOR CARGOES MUST BE CHECKED AND APPROVED BY LYONDELLBASELL TECHNICAL SERVICE MANAGER PRIOR TO LOADING.**

GASOLINE OR GASOLINE BASED PRODUCTS  
OILS OR OIL BASED PRODUCTS  
MONOMER OR MONOMER BASED PRODUCTS  
AMIMES OR AMIME BASED PRODUCTS