Mixing Application Information

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Alfa Laval, Inc.
Sanitary Equipment Division
Alfa Laval Inc.
9560 58th Place
Suite 300
Kenosha. WI 53144

I.	Customer Information	Kenosha, WI 53144	
	Company Name:	United States Tel Main: 262-605-2600	
	Company Address:	Fax: 262-605- http://www.alfalaval.us	
	Company Contact Name:		
	Contact Telephone Number Contact Email:		
II.	End User/Market/Product Manufacturer Information (Indicate "Same	as Above" if Applicable)	
	Company Name:		
	Company Address:		
	Company Contact Name:		
	Contact Telephone Number Contact Email:		
	Product Type, General Description		
III.	. Vessel Information		
	Total Vessel Volume: liters/US gallons		
	Mixing Volume: Maximum: liters/US gallons/depth/free	board (inches)	
	Minimum: liters/ US gallons/depth/free	eboard (inches)	
	Other Batch Sizes: 34 Design Full Depth 25 Design Full Depth 34 I	Design Full Depth 🔲 Other	
	Tank Bottom Shape (See Page 3 For Tank Details):	Conical Other	
	Tank Construction: New Existing Fixed in Place P	ortable Stainless Steel	
	Is Tank Bottom Insulated: Yes No		
	<u>Is a Detailed Drawing of the Tank(s) Available</u> Yes Detailed Drawing of the Tank Profile View		
	□ No		
IV.	. Fluid, Tank, and Mixing Properties (continued on next page)		
	Kinematic Viscosity cPDensity	kg/m³ (lb/ft³)	
		Ex/Class-Div./ATEX	
	Tank Process Position: ☐ Upstream ☐ Downstream of Sterile Filtration		

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7. Fluid, Tank, and Mixing Properties (Cont.)			
Mixing Purpose (Check all that Apply)			
☐ Buffer/Salt Solution ☐ Heat Transfer ☐ Blend Miscible Liquids			
☐ Suspend Solids ☐ Chemical Reaction ☐ Emulsify Immiscible Liqu	uid		
☐ Powder Mixing ☐ Protein Solution ☐ Delicate Cell Suspension	1		
Other			
Type of Powder/Solids being Mixed: Readily Soluble Mostly Soluble	☐ Difficult to Dissolve		
☐ Insoluble ☐ Crystalline	☐ Sticky		
☐ Abrasive ☐ Other			
Vortex in Liquid Batch is: ☐ Needed ☐ Not Needed ☐ Should be avoided during mixing			
Powder Particle Size: Nominal Range Minimum	Maximum		
Powder is added to Batches:			
Comments			
Mixing Characteristics: ☐ Gentle (Calm surface) ☐ General (Gentle surface motion)			
☐ Vigorous (Surface rolling w/o splashing) ☐ Violent (Surface rolling and splashing)			
Shear Sensitivity of Batch Liquid/Components			
Does product foam if Mixing Agitation Condition Above is Exceeded: Yes No			
Is Entrained Air in the Product/Batch due to Mixing an Issue? Yes No			
Mixing Conditions: Time (Min) Maximum Temp	⁰ F/ ⁰ C Minimum Temp ⁰ F/ ⁰ C		
Sterilization Conditions: Time (Min) Maximum Temp	⁰ F/ ⁰ C Minimum Temp ⁰ F/ ⁰ C		
Cleaning Conditions: Time (Min) Maximum Temp			
Cleaning Regime (Cleaning Chemicals, Comments, Refer to TCQ as needed.)			
. Mixer Configuration Specifications			
Do the in-tank Materials of Construction require Material Traceability Certificates?			
Include Variable Frequency Drive with Mixer?			
Surface Finish of In-Tank Impeller Ra µinch			
Electropolished Yes No			

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VI. Tank Diagram and Schematics

