

## **SAFETY DATA SHEET**

**Issuing Date:** 05Sep19 **Revision Date:** 06Sep19 **Rev.** 01 **SDS PN:** 101-849-900

1.	PRODUCT AND COMPANY IDENTIFICATION									
1.1	Product Identifier									
	Product Name			Sequel® II Binding Kit 2.1						
	Product N	umber(s)	101-820-500							
	Other means of ider	This product is a kit box containing 15 reagent tubes.								
				Subcomponent Name	Part #	#	Cap Colo			
				Sequel® II DNA Polymerase 2.1	101-820-600	1	Purple			
				Sequel® Binding Buffer	101-623-400	2	Yellow			
				Sequel® dNTP	101-623-700	1	Green			
				DTT	001-388-706	3	Red			
				Sequel® Additive	101-623-500	1	White			
				Sequel® Complex Dilution Buffer	101-623-600	7	Blue			
1.2	Relevant Identified Uses of the Substance or Mixture and Uses Advised Against									
	Identified Use			For use with the Sequel <sup>®</sup> II Sequencing Kit 2.0 on the PacBio <sup>®</sup>						
				Sequel <sup>®</sup> II System with a Sequel <sup>®</sup> II SMRT <sup>®</sup> Cell 8M.						
	Restrictions on Use			FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.						
1.3	Details of the Supplier of the	Substance	l .							
	Supplier Name and	Pacific Biosciences of California, Inc.								
	••	1305 O'Brien Drive								
		Menlo Park, CA 94025 U.S.A								
			www.pacificbiosciences.com							
	•	ier phone	+1 650-521-8000							
1.4	Emergency Telephone Number									
	Within USA & Canada			Call CHEMTREC 1-800-424-9300 (reference CCN# 656805)						
_	Outside USA and		techsu	upport@pacb.com						
2.	HAZARD(S) IDENTIFICATION	ON								
2.1	Classification of the substance or mixture									
	The kit as a whole is not a hazardous sub			stance or mixture. Subcomponents are classified as follows.						
	Subcomponent Name	Part	# Classification							
	Sequel <sup>®</sup> II DNA Polymerase 2.1	101-820-600		Not a hazardous substance or mixture						
	Sequel® Binding Buffer	101-623	Not a hazardous substance or mixture							
	Sequel® dNTP	100-623	700 Not a hazardous substance or mixture							
	DTT	001-388	-706	Skin Irritation (Category 3)						
	Sequel® Additive	101-623	-500	Not a hazardous substance or mixture						
	Sequel® Complex Dilution Buffer	101-623-600		Not a hazardous substance or mixture						

<sup>1</sup> Classification in accordance with 29CFR1910 (OSHA HCS) and UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Page 1 of 5

2.2	2 GHS Label Elements and precautionary statements									
							ts listed in section	n 2.1		
	Product						Precautionary stateme	ent(s)		
	DTT Tube	N	one	Warning		H316: Causes mild skin irritation		P332+P313: If skin irritation occurs: Get medical advice/attention		
2.3	Hazards	not ot	herwise	classified (F	INO	C) or not o	covered by GHS			
	None			-			-			
3.	COMPO	SITIO	N / INF	ORMATION	ON	INGRED	DIENTS			
3.1 Substances										
		Common Name and Synonyn					II Binding Kit			
CAS Number None										
				unique identifi	ers	None				
3.2	Hazardo									
	hazardou			the following	haza	ardous ingi	redients. None of	the other reagent tubes con	ntain any	
Subco	omponent	is ingre	Hazard		CAS		GHS Classification		Concentration	
DTT Tube		Ingredi			33-12-3	Acute Toxicity, Oral (Category 4); Skin Irritation (Category 2); Eye Irritation (Category 2A); Specific Target Organ Toxicity – single exposure (Category 3), Respiratory system; Chronic Aquatic Toxicity (Category 3)		(wt%) 6.17%		
4.	FIRST AID MEASURES									
4.1	Description of First Aid Measures									
						ician. Show this safety data sheet to the physician.				
				If breathed in, move person into fresh air. If not breathing, give artificial respiration.						
			Wash off with plenty of water. If skin irritation occurs: Get medical advice/attention.							
		If swa	llowed	Never give a	nyth	ing by mo	nouth to an unconscious person. Rinse mouth with wat			
4.2										
	No data available. Refer to section 2.2 and section 11 for additional information.									
4.2	Indication of any immediate medical attention and special treatment needed									
	No data a	availab	le							
5.	FIRE-FI	GHTIN	IG ME	ASURES						
5.1	Suitable	Exting	guishing	Media						
	Dry chem	nical, ca	arbon di	oxide, foam o	r wat	er.				
5.2	Special I	hazard	s arisin	g from the su	ıbsta	ance or m	ixture			
	Combust	Combustion will produce oxides of carbon, nitrogen and sulfur.								
5.3	Advice for firefighters (special protective equipment or precautions)									
Wear self-contained breathing apparatus for fire-fighting as necessary.						<b>/</b> .				
6.	ACCIDE	NTAL	RELE	ASE MEAS	JRE	S				
6.1	Persona	Personal precautions, protective equipment and emergency procedures								
	Avoid bre	Avoid breathing vapors, mists or gas. For personal protection see section 8.0.								
6.2	Environ	Environmental precautions								
						spills and ı	releases as requi	red to appropriate authoritie	s.	
6.3				for cleanup						
	Wear per	rsonal p	orotectiv	e equipment,	wipe	up with pa	aper towel (or sim	nilar), and contain in closed	containers.	

6.4	Reference to other sections				
0.4	For disposal see section 13.				
7.	HANDLING AND STORAGE				
7.1	Precautions for safe handling				
7.1	Utilize standard good lab practices. Use in a well-ventilated area and wear standard PPE.				
7.2	Conditions for safe storage, including any incompatibilities				
	Keep containers tightly closed at the recommended storage temperature.				
8.		EXPOSURE CONTROLS / PERSONAL PROTECTION			
8.1	Control Parameters				
<u> </u>	Contains no substances with occupational exposure limit values.				
8.2	Exposure Controls				
	Appropriate engineering controls:				
	General industrial hygiene practice. No special ventilation required for normal use.				
	Personal Protective Equipment (F	PPE):			
	Eye/Face Protection	Safety glasses			
	Skin and Body Protection	Latex or nitrile gloves; lab coat /apron			
	Respiratory Protection	None required			
9.	PHYSICAL AND CHEMICAL PROPERTIES				
9.1	Information on basic physical and chemical properties				
	Appearance	Each reagent tube contains clear colorless liquid.			
	Odor	The DTT tube has a slight sulfur smell. Other tubes have mild or no odor.			
	Odor Threshold	No data available			
	рН	7.0-8.5			
	Melting point/freezing point	No data available			
	Initial boiling point and boiling range	No data available			
	Flash point	No data available			
	Evaporation rate	No data available			
	Flammability (solid, gas)	No data available			
Upp	er/lower flammability or explosive limit	No data available			
	Vapor pressure	No data available			
	Relative density				
	Solubility(ies)	No data available			
	Partition coefficient: n-octonal/water	No data available			
	Auto-ignition temperature	No data available			
	Decomposition temperature	No data available			
10.	Viscosity  STABILITY AND REACTIVITY	No data available			
10.					
	Reactivity	This product is not reactive under normal conditions of storage and use.			
	Chemical Stability	Stable under recommended storage conditions.			
	Possibility of Hazardous Reactions  Conditions to Avoid	No data available			
	Incompatible Materials	No data available  Avoid contact with strong acids, bases and oxidizers.			
	Hazardous Decomposition Products	No data available. In the event of fire see section 5.			
11.	TOXICOLOGICAL INFORMATION				
11.1	Information on likely routes of exposure				
	The most likely route of exposure is via skin or eye contact. Exposure via inhalation or ingestion is less likely.				

11.2	Symptom	s related to the physical	I, chemical and toxicological characteristics			
	No data available					
11.3	Delayed a	layed and immediate effects and also chronic effects from short and long-term exposure				
	-	Eyes	No data available			
		Skin	No data available			
		Inhalation	No data available			
	Ingestion		No data available			
		Chronic Effects	No data available			
	Aggrav	ated Medical Conditions	No data available			
	Interactio	ns with other Chemicals	No data available			
11.4	11.4 Numerical measures of toxicity					
		Acute toxicity	No data available			
		Skin corrosion/irritation	No data available			
	Serio	us eye damage/irritation	No data available			
	Respira	tory or skin sensitization	No data available			
		Germ cell mutagenicity	No data available			
		Reproductive toxicity	No data available			
	Spe	cific target organ toxicity	No data available			
11.5	Carcinogenicity					
	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP or OSHA.					
12.	ECOLOGICAL INFORMATION					
		Ecotoxicity	No data available			
	Persistence and Degradability		No data available			
Bioaccumulative Potential  Mobility in soil		oaccumulative Potential	No data available			
		Mobility in soil	No data available			
F	Results of PBT and vPvB Assessment		None Required			
		Other adverse effects	No data available			
13.	DISPOSA	AL CONSIDERATIONS				
	Dispose al	I waste in accordance wit	h local, regional and national regulations.			
		Product	See above			
	С	Contaminated Packaging	See above			
		US EPA Waste Number	No EPA ID number. Not regulated as a US federal hazardous waste. Not regulated under Title 22 as a California hazardous waste.			
14.	TRANSP	ORT INFORMATION				
	Transportation of this product is not regulated under ICAO, IMDG or US DOT.					
15.	REGULATORY INFORMATION					
15.1	USA Federal Regulations					
	SARA 302 No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 3					
	SARA 313 This material does not contain any chemical components with known CAS numbers that exceed threshold reporting levels established by SARA Title III, Section 313					
SA	RA 311/312	No SARA hazards	•			
	TSCA	Research use only				
15.2	USA State	Regulations				
	CA Prop 65 This kit does not contain any chemicals known to the State of California to cause cancer or adverse reproductive health effects					

## 16. OTHER INFORMATION Pacific Biosciences of California, Inc. Prepared By Environment, Health and Safety 1305 O'Brien Drive Menlo Park, CA 94025 U.S.A. safety@pacb.com Further The above information is believed to be correct but does not purport to be all inclusive and shall be Information used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. It is not a warranty or quality specification. This information relates only to the specific material designated and may not be valid for use in combination with any other material or in any other process. For Research Use Only. Not for use in diagnostic procedures. © Copyright 2019, Pacific Biosciences of California, Inc. All right reserved. Information in this document is subject to change without notice. Pacific Biosciences assumes no responsibility for any errors or omissions in this document. Certain notices, terms, conditions and/or use restrictions may pertain to your use of Pacific Biosciences products and/or third-party products. Please refer to the applicable Pacific Bioscience Terms and Conditions of Sale and to the applicable license terms at http://www.pacb.com/legal-andtrademarks/product-license-and-use-restrictions/. Pacific Biosciences, the Pacific Biosciences logo, PacBio, SMRT, SMRTbell, Iso-Seq, and Sequel are trademarks of Pacific Biosciences. BluePippin and SageELF are trademarks of Sage Science. NGSgo and NGSengine are trademarks of GenDx. FEMTO Pulse and Fragment Analyzer are trademarks

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