

## SAFETY DATA SHEET

Issuing Date: 17Aug18

Revision Date: 17Aug18

**Rev.** 01

SDS PN: 101-636-500

1.	PRODUCT AND COMPANY IDENTIFICATION					
1.1	Product Identifier					
	Product Name	Sequel <sup>®</sup> Sequencing Kit 3.0 (4 rxn)				
	Product Number(s)	101-597-900				
	Other means of identification	This product is a kit containing 1 sequencing plate.				
					Cap Color	
		Sequel <sup>®</sup> S	Sequencing Plate 3.0 (4 rxn)	101-427-800	1 plate	NA
1.2	Relevant Identified Uses of the Subs	stance or Mixture and Uses Advised Against				
	Identified Use For use with the Pacific Biosciences PacBio <sup>®</sup> Sequel <sup>®</sup> S				el <sup>®</sup> System	1
	Restrictions on Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.			ГIC	
1.3	Details of the Supplier of the Substance or Mixture					
	Supplier Name and Address	Pacific Biosciences of CA, Inc. 1305 O'Brien Drive Menlo Park, CA 94025 U.S.A www.pacificbiosciences.com				
	Supplier phone	+1 650-521-8000				
1.4	4 Emergency Telephone Number   Within USA & Canada   Call CHEMTREC 1-800-424-9300 (reference CCN# 656805)					
	Outside USA and Canada techsupport@pacb.com					
2.	HAZARD(S) IDENTIFICATION					
2.1 Classification of the substance or mixture						
	The kit as a whole is not a hazardous substance or mixture. <sup>1</sup> Subcomponents are classified as follows.				<b>.</b>	
	Subcomponent Name	Part #				
		101-427-800 Not a hazardous substance or mixture.				
2.2	GHS Label Elements and precaution		ents			
	Not a hazardous substance or mixture.					
2.3	Hazards not otherwise classified (HNOC) or not covered by GHS					
	None.					
3.	COMPOSITION / INFORMATION ON INGREDIENTS					
3.1						
Common Name and Synonyms Sequel <sup>®</sup> Sequencing Kit 3.0 CAS Number None						
	Other unique identifiers	None				
3.2	Hazardous components	1				
	Four (4) wells on the Sequencing Plate contain hazardous ingredients as specified below. The remaining wells do not contain any hazardous ingredients.				ing wells do	

<sup>&</sup>lt;sup>1</sup> Classification in accordance with 29CFR1910 (OSHA HCS) and UN Globally Harmonized system of classification and labelling of chemicals

Subco	mponent	Hazardous Ingredient(s)	CAS	GHS Classification	Concentration (wt%)			
Sequel <sup>®</sup> Sequencing		DL-Dithiothreitol	3483-12-3	Acute Toxicity, Oral (Category 4); Skin Irritation (Category 2); Eye Irritation (Category 2A); Specific Target Organ Toxicity – single exposure (Category 3), Respiratory system;	6.17%			
				Chronic Aquatic Toxicity (Category 3)				
4.	FIRST AID N							
4.1	Description of First Aid Measures							
			Consult a physician. Show this safety data sheet to the physician.					
	In case of ski							
In case of eye contact Flush eyes with water. If swallowed Never give anything by mouth to an unconscious person. Rinse n			nouth to an unconscious person. Binse mouth	with water.				
4.2		Most important symptoms/effects, both acute and delayed						
				11 for additional information.				
4.2	Indication of	any immediate medi	cal attention a	nd special treatment needed				
	No data availa	ble						
5.	FIRE-FIGHT	ING MEASURES						
5.1	Suitable Extinguishing Media							
	Dry chemical, carbon dioxide, foam or water.							
5.2	Special hazards arising from the substance or mixture							
		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.							
6.		L RELEASE MEA						
6.1	Personal precautions, protective equipment and emergency procedures							
6.2	Avoid breathing vapors, mists or gas. For personal protection see section 8.0.							
0.2	Environmental precautions							
6.3	Avoid release to the environment. Report spills and releases as required to appropriate authorities. Methods and materials for cleanup							
0.0	Wear personal protective equipment, wipe up with paper towel (or similar), and contain in closed containers.							
6.4	Reference to other sections							
	For disposal see section 13.							
7.	HANDLING AND STORAGE							
7.1	Precautions for safe handling							
	Utilize standar	d good lab practices.	Use in a well-v	entilated 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 Parar							
	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							
		trial hygiene practice. tective Equipment (I		nination required for normal use				
		Eye/Face Protection	Safety glasses					
		and Body Protection		gloves; lab coat /apron				
		spiratory Protection	None required					

9. PHYSICAL AND CHEMICAL I	PROPERTIES			
9.1 Information on basic physical and chemical properties				
Appearance	Sequel <sup>®</sup> Sequencing Plate 3.0 (4 rxn)	101-427-800	Wells A4-D4 contain clear orange-yellow liquid Wells A11-D11 contain clear light purple liquid Other wells contain clear colorless liquid	
Odor	The Sequencing	Plate may ha	ve a slight sulfur odor.	
Odor Threshold	Not applicable	T late may ha		
Ha	7.0-8.5			
Melting point/freezing point	No data available			
Initial boiling point and boiling range	No data available			
Flash point	No data availabl			
Evaporation rate	No data availabl			
Flammability (solid, gas)	No data availabl	е		
Upper/lower flammability or explosive limit	No data availabl	е		
Vapor pressure	No data availabl			
Relative density	No data availabl			
Solubility(ies)	No data availabl	e		
Partition coefficient: n-octonal/water	No data availabl	е		
Auto-ignition temperature	No data availabl	е		
Decomposition temperature	No data availabl	е		
Viscosity	No data availabl	е		
10. STABILITY AND REACTIVITY				
Reactivity This product is not reactive under normal conditions of storage and use			der normal conditions of storage and use.	
Chemical Stability	Stable under recommended storage conditions.			
Possibility of Hazardous Reactions	No data available			
Conditions to Avoid	No data available			
Incompatible Materials	Avoid contact with strong acids, bases and oxidizers.			
Hazardous Decomposition Products No data available. In the event of fire see section 5.			t of fire see section 5.	
11. TOXICOLOGICAL INFORMAT				
11.1 Information on likely routes of e				
			ure via inhalation or ingestion is less likely.	
11.2 Symptoms related to the physic	al, chemical and t	toxicological	characteristics	
No data available				
11.3 Delayed and immediate effects a			hort and long-term exposure	
Eyes	No data availabl			
Skin Inhalation	No data availabl			
Inhalation Ingestion	No data availabl			
Chronic Effects	No data availabl			
Aggravated Medical Conditions	No data availabl			
Interactions with other Chemicals	No data availabl			
11.4 Numerical measures of toxicity		-		
Acute toxicity	No data availabl	e		
	No data availabl			
Skin corrosion/irritation				
		е		
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	No data availabl No data availabl			
Serious eye damage/irritation	No data availabl	e		

	Spe	ecific target organ toxicity	No data available		
11.5	Carcino	genicity			
	No ingre	edients in this product are listed as carcinogens by ACGIH, IARC, NTP or OSHA.			
12.	ECOLO	OGICAL INFORMATION			
	Ecotoxicity		No data available		
Persistence and Degradability		stence and Degradability	No data available		
	Bioaccumulative Potential		No data available		
		Mobility in soil	No data available		
F	Results of PE	T and vPvB Assessment	None Required		
		Other adverse effects	No data available		
13.	DISPOS	SAL CONSIDERATION	S		
	Dispose	all waste in accordance wi	th local, regional and national regulations.		
		Product	See above		
		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.	TRANS	PORT INFORMATION			
	Transpor	tation of this product is no	t regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.		
15.	REGUL	ATORY INFORMATION	۷		
15.1	USA Fee	deral Regulations			
	SARA 302		erial are subject to the reporting requirements of SARA Title III, Section 302		
	SARA 313		ntain any chemical components with known CAS numbers that exceed the established by SARA Title III, Section 313		
SAF	RA 311/312	No SARA 311/312 hazar	ds		
	TSCA	Research use only			
15.2		te Regulations			
(	CA Prop 65	This kit does not contain reproductive health effec	any chemicals known to the State of California to cause cancer or adverse ts		
16. C	THER INF	ORMATION			
Prepared By Pacific Biosciences of CA, Inc. Environment, Health and Safety 1305 O'Brien Drive Menlo Park, CA 94025 U.S.A. safety@pacb.com					
Information used or and is a guarant relates other m For Res Caliform		The above information is believed to be correct but does not purport to be all inclusive and shall be 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 elates 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 2018, Pacific Biosciences of California, Inc. All right reserved. Information I this document subject to change without notice. Pacific			
		terms, conditions and/or third-party products. Plea to the applicable license <u>restrictions/</u> . Pacific Biosciences, the I trademarks of Pacific Bio go and NGSengine are th	responsibility for any errors or omissions in this document. Certain notices, use restrictions may pertain to your use of Pacific Biosciences products and/or ase refer to the applicable Pacific Bioscience Terms and Conditions of Sale and terms at <a href="http://www.pacb.com/legal-and-trademarks/product-license-and-use-Pacific Biosciences logo">http://www.pacb.com/legal-and-trademarks/product-license-and-use-Pacific Biosciences logo</a> , PacBio, SMRT, SMRTbell, Iso-Seq, and Sequel are sciences. BluePippin and SageELF are trademarks of Sage Science. NGS-rademarks of GenDx. FEMTO Pulse and Fragment Analyzer are trademarks of hnologies. All other trademarks are the sole property of their respective		