

SAFETY DATA SHEET

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Rev. 02

SDS PN: 101-816-100

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product Identifier		1						
	Product Name			Sequel [®] II Binding Kit 2.0					
	Product Number(s)			101-789-500					
	Other means of identification			This product is a kit box containing 15 reagent tubes.					
				Subcomponent Name	Part #	#	Cap Color		
				Sequel [®] II DNA Polymerase 2.0	101-803-900	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 [®] II Sequencing Kit 2.0 on the PacBio [®]					
				Sequel [®] II System with a Sequel [®] II SMRT [®] Cell 8M.					
	Restrictions on Use			FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC					
PROCEDURES.									
1.3	Details of the Supplier of the Substance or Mixture								
	Supplier Name and Address			Pacific Biosciences of California, Inc. 1305 O'Brien Drive					
				Menlo Park, CA 94025					
				U.S.A www.pacificbiosciences.com					
	Supplier phone			+1 650-521-8000					
1.4	Emergency Telephone Number								
	Within USA &		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. ¹ Subcomponents are classified as follows.								
	Subcomponent Name	Part	#	t Classification					
	Sequel [®] II DNA Polymerase 2.0	101-803-900		Not a hazardous substance or mixture					
	Sequel [®] Binding Buffer	101-623-400		00 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 n	nixture				

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

			ind precautio				21								
	Product	Information is provided for Product Pictogram			Hazard statement(s)		Precautionary statement(s)								
	DTT Tube	None	Signal Word Warning		H316: Causes mild skin irritation		P332+P313: If skin irritation occurs: Get medical advice/attention								
2.3	Hazards	not otherwise	classified (F	ied (HNOC) or not c		covered by GHS									
	None				<i>oy er net </i>										
3.	СОМРО	SITION / INF	ORMATION		INGRED										
5.1		Substances Common Name and Synonyms				II Binding Kit									
			CAS Num		None										
		Other	unique identifi	ers	None										
3.2	Hazardo	us componen	ts												
	The DTT Tube contains the following hazardous ingredients. None of the other reagent tubes contain any														
	hazardou	s ingredients.	-	r		T									
Subco	mponent	Hazaro Ingredi		CA	S	GHS Classification	on	Concentration (wt%)							
		iothreitol	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; Chronic Aquatic Toxicity (Category 3)		6.17%								
4.	FIRST A		ES												
4.1	Descript	ion of First Ai	d Measures												
	General advice Consult a physician. Show this safety data sheet to the physician.														
				in, move person into fresh air. If not breathing, give artificial respiration.											
	In case o	se of skin contact Wash off			off with plenty of water. If skin irritation occurs: Get medical advice/attention.										
	In case c	f eye contact	Flush eyes v	lush eyes with water.											
	If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with wa				with water.										
4.2 Most important symptoms/effects, both acute and delayed															
		No data available. Refer to section 2.2 and section 11 for additional information.													
4.2	No data available														
5.	FIRE-FI	GHTING ME	ASURES												
5.1		Suitable Extinguishing Media													
		Dry chemical, carbon dioxide, foam or water.													
5.2		azards arisin													
		on will produc													
5.3						nent or precautio									
•	Wear self-contained breathing apparatus for fire-fighting as necessary. ACCIDENTAL RELEASE MEASURES														
6.															
	Personal precautions, protective equipment and emergency procedures														
6.1	Avoid breathing vapors, mists or gas. For personal protection see section 8.0.														
							Environmental precautions								
6.1 6.2	Environr	nental precau	tions												
	Environr Avoid rele	nental precau	tions /ironment. Re		spills and	releases as requir	ed to appropriate authoritie	S.							

6.4	Reference to other sections						
	For disposal see section 13.						
7.	HANDLING AND STORAGE						
7.1	Precautions for safe handling						
	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 / PER	EXPOSURE CONTROLS / PERSONAL PROTECTION					
8.1	Control Parameters						
	Contains no substances with occupa	ational 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 PI						
9.1	Information on basic physical and	d 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					
	Hq	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					
aaU	er/lower flammability or explosive limit	No data available					
	Vapor pressure	No data available					
	Relative density	No data available					
	Solubility(ies)	No data available					
	Partition coefficient: n-octonal/water	No data available					
	Auto-ignition temperature	No data available					
	Decomposition temperature	No data available					
	Viscosity	No data available					
10.	STABILITY AND REACTIVITY						
	Reactivity	This product is not reactive under 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.					
11.	TOXICOLOGICAL INFORMATI						
11.1	Information on likely routes of ex						
	The most likely route of exposure is	via skin or eye contact. Exposure via inhalation or ingestion is less likely.					

11.2	Symptom	is related to the physical, chemical and toxicological characteristics					
	No data av	vailable					
11.3	Delayed a	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				
		ns with other Chemicals	No data available				
11.4	Numerica	I 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 ingredi	lo ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP or OSHA.					
12.	ECOLOG	ECOLOGICAL INFORMATION					
		Ecotoxicity	No data available				
	Persistence and Degradability		No data available				
Bioaccumulative Potential			No data available				
Mobility in soil		Mobility in soil	No data available				
	Results of PBT and vPvB Assessment		None Required				
		Other adverse effects	No data available				
13.	DISPOSA	DISPOSAL CONSIDERATIONS					
	Dispose all waste in accordance with local, regional and national regulations.						
	Product See above		See above				
	Contaminated Packaging See above		See above				
	US EPA Waste Number No EPA ID number. Not regulated as a US federal hazardous waste. No regulated under Title 22 as a California hazardous waste.						
14.	TRANSP	TRANSPORT INFORMATION					
	Transporta	ation of this product is not	regulated under ICAO, IMDG or US DOT.				
15.	REGULA	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 302						
SARA 313 This material does not contain any chemical components with known CAS number threshold reporting levels established by SARA Title III, Section 313							
SARA 311/312 No SARA hazards							
	TSCA	Research use only					
15.2	USA State	e 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						
Prepared By	Pacific Biosciences of California, Inc. Environment, Health and Safety 1305 O'Brien Drive Menlo Park, CA 94025 U.S.A. safety@pacb.com					
Further Information	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 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.					
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