

SAFETY DATA SHEET

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Rev. 01

SDS PN: 101-636-300

1.	PRODUCT AND COMPANY	IDENTIF		ON					
1.1	Product Identifier								
	Product Name			el [®] Binding Kit 3.0					
	Product Number(s)			101-500-400					
	Other means of identification			This product is a kit box containing 9 reagent tubes.					
			Subcomponent Name	Part #	#	Cap Color			
				Sequel [®] DNA Polymerase 3.0	101-614-000	1	Purple		
				Sequel [®] Binding Buffer v1	101-623-400	1	Yellow		
				Sequel [®] dNTP	101-623-700	1	Green		
					001-388-706	2	Red		
				Sequel [®] Additive	101-623-500	1	White		
				Sequel [®] Complex Dilution Buffer	101-623-600	3	Blue		
1.2	Relevant Identified Uses of th	e Substar	nce or N	lixture and Uses Advised Ag	gainst				
	Ident	tified Use	For use with the Pacific Biosciences PacBio Sequel [®] system						
	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 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 & Canada			Call CHEMTREC 1-800-424-9300 (reference CCN# 656805)					
	Outside USA and Canada			techsupport@pacb.com					
2.	HAZARD(S) IDENTIFICATI	ON							
2.1	Classification of the substance or mixture								
	The kit as a whole is not a haza	rdous sub	stance of	tance or mixture. ¹ Subcomponents are classified as follows.					
	Subcomponent Name	Part #		Classification					
	Sequel [®] DNA Polymerase 3.0	101-614-000		0 Not a hazardous substance or mixture.					
	Sequel [®] Binding Buffer v1	101-623-400		0 Not a hazardous substance or mixture.					
	Sequel [®] dNTP	101-623-700		00 Not a hazardous substance or mixture.					
	DTT	001-388-706		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.					

¹ Classification in accordance with 29CFR1910 (OSHA HCS) and UN Globally Harmonized system of classification and labelling of chemicals

2.2	GHS Label Elements and precautionary statements									
	Informatio	Information is provided for the hazardous components listed in section 2.1								
	Product	Pictogram	Signal Wo	rd Hazard s		statement(s)	Precautionary stateme	nt(s)		
	DTT Tube	None	Warning	g H316: Cau irritation		uses mild skin	P332+P313: If skin irritation medical advice/attention	occurs: Get		
2.3	Hazards	not otherwise	classified (H	INO	C) or not c	covered by GHS				
	None									
3.	COMPO	SITION / INF	ORMATION	ON	INGRED	IENTS				
3.1	Substan	Substances								
		Common Nam				Binding Kit 3.0				
		0.1	CAS Num		None					
		Other unique identifiers None								
3.2		Hazardous components								
	The DTT Tube contains the following hazardous ingredients. None of the other reagent tubes contain any hazardous ingredients.									
Subco	mponent	Hazard Ingredi		CA	S	GHS Classification	GHS Classification			
		othreitol 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)		(wt%) 6.17%				
4.	FIRST A	FIRST AID MEASURES								
4.1	Descript	Description of First Aid Measures								
	G	General advice Consult a physician. Show this safety data sheet to the physician. Wash hands thoroughly after handling.								
		If inhaled	If breathed in	n, mo	ove persor	n into fresh air. If no	ot breathing, give artificial i	respiration.		
	In case of skin contact Wash off with plenty of water. If skin irritation occurs: Get medical advice/attention.									
	In case of eye contact If in eyes: Rinse cautiously with water for several minutes. Remove contact present and easy to do. Continue rinsing. If eye irritation persists: Get me advice/attention.									
		If swallowed					us person. Rinse mouth v	vith 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	Indication of any immediate medical attention and special treatment needed No data available									
F		GHTING ME								
5.										
5.1		Suitable Extinguishing Media								
5.2		Dry chemical, carbon dioxide, foam or water.								
5.2		Special hazards arising from the substance or mixture								
5.3	Combustion will produce oxides of carbon, nitrogen and sulfur. Advice for firefighters (special protective equipment or precautions)									
0.0	Wear self-contained breathing apparatus for fire-fighting as necessary.									
6.	ACCIDENTAL RELEASE MEASURES									
6.1										
0.1	Personal precautions, protective equipment and emergency procedures									
6.2		Avoid breathing vapors, mists or gas. For personal protection see section 8.0. Environmental precautions								
				port	spills and r	eleases as required	d to appropriate authorities	3.		
6.3		and materials								
	Wear per	sonal protectiv	e equipment,	wipe	up with pa	aper towel (or simila	ar), and contain in closed o	containers.		
6.4	Reference	Reference to other sections								
	For dispo	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 / PERSONAL PROTECTION					
8.1	Control Parameters					
	Contains no substances with occupation	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					
	Respiratory Protection					
9.	PHYSICAL AND CHEMICAL PROPERTIES					
9.1	Information on basic physical and	d chemical properties				
	Appearance	Each reagent tube contains clear colorless liquid.				
	Odor	The DTT Tube may have a slight sulfur 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 No data available				
	Flash point					
	Evaporation rate	No data available				
	Flammability (solid, gas)	No data available				
Upp	er/lower flammability or explosive limit	No data available No data available				
	Vapor pressure					
	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				
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	No data available				
	Conditions to Avoid	No data available				
	Incompatible Materials Hazardous Decomposition Products	Avoid contact with strong acids, bases and oxidizers. No data available. In the event of fire see section 5.				
11.	TOXICOLOGICAL INFORMATI					
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		I, chemical and toxicological characteristics				
11.2	No data available					
11.3		nd also chronic effects from short and long-term exposure				
. 1.5	Eyes	No data available				
	Skin	No data available				
	JAII					

Inhalation		Inhalation	No data available			
Ingestion			No data available			
Chronic Effects			No data available			
Aggravated Medical Conditions			No data available			
		ons with other Chemicals	No data available			
11.4		I measures of toxicity				
		Acute toxicity	Dithiothreitol – LD ₅₀ Oral – Rat – 400 mg/kg			
		Skin corrosion/irritation	No data available			
	Serio	us eye damage/irritation	No data available			
		tory or skin sensitization	No data available			
		Germ cell mutagenicity	No data available			
		Reproductive toxicity	No data available			
	Sne	cific target organ toxicity	No data available			
11.5						
11.5		Carcinogenicity No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP or OSHA.				
12.						
12.	LCOLOG					
		Ecotoxicity	Dithiothreitol – LC ₅₀ – Daphnia Magna (water flea) – 27 mg/L – 48h			
		stence and Degradability	No data available			
	В	ioaccumulative Potential	No data available			
		Mobility in soil	No data available			
F	Results of PB	T and vPvB Assessment	None Required			
		Other adverse effects	No data available			
13.	DISPOS	AL CONSIDERATIONS				
	Dispose a	Il waste in accordance wit	h local, regional and national regulations.			
		Product	See above			
	C	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		ral Regulations	tarial are subject to the reporting requirements of CADA Title III. Costion 202			
	SARA 302		terial are subject to the reporting requirements of SARA Title III, Section 302			
	SARA 313	threshold reporting level	ontain any chemical components with known CAS numbers that exceed the s established by SARA Title III, Section 313			
SA	RA 311/312	No SARA hazards				
45.0	TSCA Research use only					
15.2		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. O	16. OTHER INFORMATION					
	Prepared By Pacific Biosciences Environment, Health and Safety 1305 O'Brien Drive Menlo Park, CA 94025 U.S.A. safety@pacb.com					
Further 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 represent any guarantee of the properties of the product. It is not a warranty or quality specificat			he information in this document is based on the present state of our able to the product with regard to appropriate safety precautions. It does not			

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