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Rev. 01
SDS PN: 101-308-400

1. PRODUCT AND COMPANY IDENTIFICATION				
1.1 Product Identifier				
Product Name	SMRTbell® Clean Up Column v2 Kit-Dif			
Product Number(s)	101-184-100			
Other means of identification	This product consists of two parts that ship separately.			
	Part 1: SMRTbell® Clean Up Columns v2 (P/N 101-175-400) – This part is a box containing 3 bags			
	Subcomponent Name	Part #	#	Container
	SMRTbell® Clean Up Columns v2	NA	20	Bag
	Collection Tubes	NA	20	Bag
	Vial Stoppers	NA	20	Bag
	Part 2: MagBead Binding Buffer Kit v2 (P/N 101-046-400) - This part is a box containing 9 reagent tubes			
Subcomponent Name	Part #	# tubes	Cap Color	
MagBead Binding Buffer v2	100-672-100	9	Red	
1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against				
Identified 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 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 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 mixture¹				
Part 1 is not a hazardous substance or mixture. Subcomponents are classified as follows.				
Subcomponent Name	Part #	Classification		
SMRTbell® Clean Up Columns v2	NA	Not a hazardous substance or mixture.		
Collection Tubes	NA	Not a hazardous substance or mixture.		
Vial Stoppers	NA	Not a hazardous substance or mixture.		
Part 2 is not a hazardous substance or mixture. Subcomponents are classified as follows.				
Subcomponent Name	Part #	Classification		
MagBead Binding Buffer v2	100-672-100	Not a hazardous substance or mixture.		
2.2 GHS Label Elements and precautionary statements				
Not a hazardous substance or mixture.				
2.3 Hazards not otherwise classified (HNOC) or not covered by GHS				
None.				

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

3. COMPOSITION / INFORMATION ON INGREDIENTS		
3.1 Substances		
	Part 1	Part 2
Common Name and Synonyms	SMRTbell® Clean up Columns v2 Kit-Dif	MagBead Binding Buffer Kit v2
CAS Number	None	None
Other unique identifiers	None	None
3.2 Hazardous components		
No ingredients are hazardous according to OSHA or GHS criteria.		
4. FIRST AID MEASURES		
4.1 Description of First Aid Measures		
General advice	Consult a physician. Show this safety data sheet to the physician.	
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration	
In case of skin contact	Wash off with water.	
In case of eye contact	Flush eyes with water.	
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth 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 Indication of any immediate medical attention and special treatment needed		
No data available		
5. FIRE-FIGHTING 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. ACCIDENTAL RELEASE MEASURES		
6.1 Personal precautions, protective equipment and emergency procedures		
Avoid breathing vapors, mists or gas. For personal protection see section 8.0.		
6.2 Environmental precautions		
Avoid release to the environment. Report spills and releases as required to appropriate authorities.		
6.3 Methods and materials for cleanup		
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 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 occupational exposure limit values.		
8.2 Exposure Controls		
General industrial hygiene practice. No special ventilation required for normal use		
Personal Protective Equipment (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	SMRTbell® Clean up Columns v2	White liquid suspension in closed column
	MagBead Binding Buffer v2	Clear and colorless liquid
Odor	No odor	
Odor Threshold	Not applicable	
pH	7.0-8.5	
Melting point/freezing point	No data available	
Initial boiling point and boiling range	No data available	
Flash point	SMRTbell® Clean up Columns v2	Does not sustain combustion
	MagBead Binding Buffer v2	No data available
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Upper/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-octanol/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	None	
Conditions to Avoid	Avoid contact with incompatible materials	
Incompatible Materials	Avoid contact with strong acids, strong bases, strong 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 Symptoms related to the physical, chemical and toxicological characteristics		
No data available		
11.3 Delayed 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	
Aggravated Medical Conditions	No data available	
Interactions with other Chemicals	No data available	
11.4 Numerical measures of toxicity		
Acute toxicity	No data available.	
Skin corrosion/irritation	No data available	
Serious eye damage/irritation	No data available	
Respiratory or skin sensitization	No data available	
Germ cell mutagenicity	No data available	
Reproductive toxicity	No data available	
Specific 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	No data available for product or most components.
Mobility in soil	No data available
Results of PBT and vPvB Assessment	None Required
Other adverse effects	No data available
13. DISPOSAL CONSIDERATIONS	
Dispose all waste in accordance with 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. TRANSPORT 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 302
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313
SARA 311/312	No SARA hazards
TSCA	Research use only
15.2 USA State Regulations	
CA Prop 65	This product 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 CA, Inc. Environment, Health and Safety 1305 O'Brien Drive Menlo Park, CA 94025 U.S.A. safety@pacb.com
Further Information	<p>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.</p> <p>For Research Use Only. Not for use in diagnostics procedures. © Copyright 2017, Pacific Biosciences of California, Inc. All right reserved. Information in this document 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-and-trademarks/product-license-and-use-restrictions/.</p> <p>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. NGS-go and NGSengine are trademarks of GenDx. FEMTO Pulse and Fragment Analyzer are trademarks of Advanced Analytical Technologies. All other trademarks are the sole property of their respective owners.</p>