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**Rev. 01**
**SDS PN:** 100-938-000

<b>1. PRODUCT AND COMPANY IDENTIFICATION</b>				
<b>1.1 Product Identifier</b>				
Product Name	SMRTbell™ Clean Up Column Kit			
Product Number(s)	100-929-600			
Other means of identification	This product consists of two parts that ship separately.			
	Part 1: SMRTbell™ Conditioning Buffer Kit (P/N 100-912-000) – This part is a box containing 9 reagent tubes			
	<b>Subcomponent Name</b>	<b>Part #</b>	<b># tubes</b>	<b>Cap Color</b>
	MagBead Wash Buffer v2	100-672-200	9	Yellow
	Part 2: SMRTbell™ Clean up Columns (P/N 100-912-100) – This part is a box containing 3 bags			
	<b>Subcomponent Name</b>	<b>Part #</b>	<b>#</b>	<b>Container</b>
	SMRTbell™ Clean Up Columns	NA	5	Bag
	Collection Tubes	NA	10	Bag
Vial Stoppers	NA	5	Bag	
<b>1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against</b>				
Identified Use	For use with the Pacific Biosciences PacBio RSII or Sequel™ system			
Restrictions on Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.			
<b>1.3 Details of the Supplier of the Substance or Mixture</b>				
Supplier Name and Address	Pacific Biosciences 1380 Willow Road Menlo Park, CA 94025 U.S.A www.pacificbiosciences.com			
Supplier phone	+1 650-521-8000			
<b>1.4 Emergency Telephone Number</b>				
Within USA & Canada	Call CHEMTREC 1-800-424-9300 (reference CCN# 656805)			
Outside USA and Canada	techsupport@pacificbiosciences.com			
<b>2. HAZARD(S) IDENTIFICATION</b>				
<b>2.1 Classification of the substance or mixture<sup>1</sup></b>				
Part 1 is not a hazardous substance or mixture. Subcomponents are classified as follows.				
<b>Subcomponent Name</b>	<b>Part #</b>	<b>Classification</b>		
MagBead Wash Buffer v2	100-672-200	Not a hazardous substance or mixture.		
Part 2 is not a hazardous substance or mixture. Subcomponents are classified as follows.				
<b>Subcomponent Name</b>	<b>Part #</b>	<b>Classification</b>		
SMRTbell™ Clean Up Columns	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.		
<b>2.2 GHS Label Elements and precautionary statements</b>				
Not a hazardous substance or mixture.				
<b>2.3 Hazards not otherwise classified (HNOC) or not covered by GHS</b>				
None.				

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

<b>3. COMPOSITION / INFORMATION ON INGREDIENTS</b>		
<b>3.1 Substances</b>		
	Part 1	Part 2
Common Name and Synonyms	SMRTbell™ Conditioning Buffer Kit, MagBead Wash Buffer v2	SMRTbell™ Clean up Columns
CAS Number	None	None
Other unique identifiers	None	None
<b>3.2 Hazardous components</b>		
No ingredients are hazardous according to OSHA or GHS criteria.		
<b>4. FIRST AID MEASURES</b>		
<b>4.1 Description of First Aid Measures</b>		
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.	
<b>4.2 Most important symptoms/effects, both acute and delayed</b>		
No data available. Refer to section 2.2 and section 11 for additional information.		
<b>4.2 Indication of any immediate medical attention and special treatment needed</b>		
No data available		
<b>5. FIRE-FIGHTING MEASURES</b>		
<b>5.1 Suitable Extinguishing Media</b>		
Dry chemical, carbon dioxide, foam or water.		
<b>5.2 Special hazards arising from the substance or mixture</b>		
Combustion will produce oxides of carbon, nitrogen and sulfur.		
<b>5.3 Advice for firefighters (special protective equipment or precautions)</b>		
Wear self-contained breathing apparatus for fire-fighting as necessary.		
<b>6. ACCIDENTAL RELEASE MEASURES</b>		
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>		
Avoid breathing vapors, mists or gas. For personal protection see section 8.0.		
<b>6.2 Environmental precautions</b>		
Avoid release to the environment. Report spills and releases as required to appropriate authorities.		
<b>6.3 Methods and materials for cleanup</b>		
Wear personal protective equipment, wipe up with paper towel (or similar), and contain in closed containers.		
<b>6.4 Reference to other sections</b>		
For disposal see section 13.		
<b>7. HANDLING AND STORAGE</b>		
<b>7.1 Precautions for safe handling</b>		
Utilize standard good lab practices. Use in a well-ventilated area and wear standard PPE.		
<b>7.2 Conditions for safe storage, including any incompatibilities</b>		
Keep containers tightly closed at the recommended storage temperature.		
<b>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</b>		
<b>8.1 Control Parameters</b>		
Contains no substances with occupational exposure limit values.		
<b>8.2 Exposure Controls</b>		
General industrial hygiene practice. No special ventilation required for normal use		
<b>Personal Protective Equipment (PPE):</b>		
Eye/Face Protection	Safety glasses	
Skin and Body Protection	Latex or nitrile gloves; lab coat /apron	
Respiratory Protection	None required	

<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>9.1 Information on basic physical and chemical properties</b>			
Appearance	MagBead Wash Buffer v2	100-672-200	Clear and colorless liquid
	SMRTbell™ Clean Up Columns	NA	Column containing a paste-like or gel-like slurry
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	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		
<b>10. STABILITY AND REACTIVITY</b>			
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.		
<b>11. TOXICOLOGICAL INFORMATION</b>			
<b>11.1 Information on likely routes of exposure</b>			
The most likely route of exposure is via skin or eye contact. Exposure via inhalation or ingestion is less likely.			
<b>11.2 Symptoms related to the physical, chemical and toxicological characteristics</b>			
No data available			
<b>11.3 Delayed and immediate effects and also chronic effects from short and long-term exposure</b>			
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		
<b>11.4 Numerical measures of toxicity</b>			
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		
<b>11.5 Carcinogenicity</b>			

No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP or OSHA.	
<b>12. ECOLOGICAL INFORMATION</b>	
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
<b>13. DISPOSAL CONSIDERATIONS</b>	
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.
<b>14. TRANSPORT INFORMATION</b>	
Transportation of this product is not regulated under ICAO, IMDG or US DOT.	
<b>15. REGULATORY INFORMATION</b>	
<b>15.1 USA Federal Regulations</b>	
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
<b>15.2 USA State Regulations</b>	
CA Prop 65	This product does not contain any chemicals known to the State of California to cause cancer or adverse reproductive health effects
<b>16. OTHER INFORMATION</b>	
Prepared By	Pacific Biosciences Environment, Health and Safety 1380 Willow Road Menlo Park, CA 94025 U.S.A. safety@pacificbiosciences.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.