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Rev. 01

SDS PN: 101-052-200

1. PRODUCT AND COMPANY IDENTIFICATION			
1.1 Product Identifier			
Product Name	MagBead Kit v2		
Product Number(s)	100-676-500		
Other means of identification	This product consists of three parts that ship separately.		
	Part 1: MagBeads (P/N 100-125-900) – This part is a bag containing 1 bottle		
	Subcomponent Name	Part #	# bottle
	MagBeads	100-125-900	1
	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
	MagBead Binding Buffer v2	100-672-100	9
	Part 3: MagBead Wash Buffer Kit v2 (P/N 101-046-500) - This part is a box containing 9 reagent tubes		
	Subcomponent Name	Part #	# tubes
MagBead Wash Buffer v2	100-672-200	9	
1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against			
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.		
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) IDENTIFICATION			
2.1 Classification of the substance or mixture¹			
Part 1 is not a hazardous substance or mixture.			
Part 2 is not a hazardous substance or mixture.			
Part 3 is 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.			
3. COMPOSITION / INFORMATION ON INGREDIENTS			
3.1 Substances			
Common Name and Synonyms	Part 1 MagBead Buffer Kit v2, MagBeads	Part 2 MagBead Binding Buffer Kit v2, Binding Buffer v2	Part 3 MagBead Wash Buffer Kit v2, Wash Buffer v2
CAS Number	None	None	None
Other unique identifiers	None	None	None

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

3.2 Hazardous components				
Part 1 contains the following hazardous ingredient. Part 2 and Part 3 do not contain any hazardous ingredients.				
Component	Hazardous Ingredient(s)	CAS	GHS Classification	Concentration
Part 1 - MagBeads	Sodium Azide	26628-22-8	Acute Toxicity, Oral (Category 2); Acute Toxicity, Dermal (Category 1); Acute aquatic toxicity (Category 1); Chronic Aquatic Toxicity (Category 1)	<0.1%
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	MagBeads	100-125-900	Brown beads suspended in clear liquid. Beads may settle to bottom of bottle.
	MagBead Binding Buffer v2	100-672-100	Clear and colorless liquid
	MagBead Wash Buffer v2	100-672-200	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	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	Strong acids, strong bases, strong oxidizers, metals and metallic compounds. Sodium azide form explosive compounds with heavy metals. This Magbeads contains concentrations of azide <0.1% (w/w) which with repeated contact with lead and copper commonly found in plumbing drains may results in the buildup of shock sensitive compounds		
Hazardous Decomposition Products	No decomposition products posing significant hazards would be expected from the product (an aqueous solution)		
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	Part 1, MagBeads contain Sodium Azide in concentrations <0.1%. Sodium azide is subject to reporting requirements of SARA Title III, Section 302
SARA 313	Part 1, MagBeads contains Sodium Azide in concentrations <0.1%. Sodium azide is subject to reporting requirements of SARA Title III, Section 313
SARA 311/312	No SARA 311/312 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 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.