

Issuing Date: 10Nov21

Revision Date: 10Nov21

Rev. 01
SDS PN: 102-204-300

1. PRODUCT AND COMPANY IDENTIFICATION	
1.1 Product Identifier	
Product Name	SMRTbell® Cleanup Beads
Product Number(s)	102-158-300
Other means of identification	This product is plastic bottle containing liquid.
1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against	
Identified Use	This product is intended to be used as component of the SMRTbell® Prep Kit 3.0 to prepare SMRTbell® libraries and not as a standalone kit. The SMRTbell® Cleanup beads product is compatible with the Sequel Systems.
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 & 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 mixture	
The product is not a hazardous substance or mixture. ¹	
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	SMRTbell® Cleanup beads
CAS Number	None
Other unique identifiers	None
3.2 Hazardous components	
The product contains the following hazardous ingredients.	

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

Hazardous Ingredient(s)	CAS	GHS Classification			Concentration (wt%)
Sodium Azide	26628-22-8	Acute Toxicity, Oral (Category 2); Acute Toxicity, Inhalation (Category 2); Acute Toxicity, Dermal (Category 1); Specific target organ toxicity-repeat exposure, Oral (Category 2), Brain; Short-term (acute) aquatic hazard (Category 1), Long-term (chronic) aquatic hazard (Category 1)			0.02%
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					
No data available.					
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					
Ingredient	CAS	Value	Control Parameter	Basis	
Sodium Azide	26628-22-8	C	0.1 ppm (0.3 mg/m ³)	NIOSH Recommended Exposure Limit. Skin notation	
		C	0.29 mg/m ³	ACGIH Threshold Limit Value.	
		C	0.1 ppm (0.3 mg/m ³)	CAL/OSHA Permissible Exposure Limit Skin notation	

8.2 Exposure Controls	
Appropriate engineering 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	Brown beads suspended in clear liquid. Beads may settle to bottom of the bottle.
Odor	No odor
Odor Threshold	No data available
pH	7.0-8.0
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-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	No dangerous reaction known under conditions of normal use. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.
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	Sodium azide: Oral-ra LD50 – 27 mg/kg; Dermal-rabbit LD50 – 20 mg/kg; Inhalation-rat LC50 = 37 mg/m ³
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	Sodium azide: Oral – may cause damage to organs through prolonged or repeated exposure - Brain
11.5 Carcinogenicity	
No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP or OSHA.	
12. ECOLOGICAL INFORMATION	
Ecotoxicity	Sodium azide: <ul style="list-style-type: none"> • Toxicity to fish: <i>Pimephales promelas</i> LC50 – 5.4 mg/l (96h) • Toxicity to algae: <i>Pseudokirchneriella subcapitata</i> EC50-0.35 mg/l (96h)
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
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	Sodium azide is subject to reporting requirements of SARA Title III, Section 302.
SARA 313	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 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	<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 diagnostic procedures. © Copyright 2021, Pacific Biosciences of California, Inc. All right reserved. Information in this document is 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 in the United States and/or certain other countries. All other trademarks are the sole property of their respective owners.</p>
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