

Issuing Date: 15Jan13

Revision Date: 07Aug19

Rev. 06

SDS PN: 100-205-800

1. PRODUCT AND COMPANY IDENTIFICATION				
1.1 Product Identifier				
Product Name	SMRT® Cell Oil Sequel® SMRT® Cell Oil			
Product Number(s)	100-209-300 100-619-300 / 100-621-300			
Other means of identification	SMRT Cell Oil is a bag containing 10 reagent tubes.			
	Subcomponent Name	Part #	# tubes	Cap Color
	SMRT® Cell Oil	100-192-000	10	Blue
	Sequel® SMRT Cell Oil is a bag or a box containing 1 or 5 reagent tubes.			
	Subcomponent Name	Part #	# tubes	Cap Color
	Sequel® SMRT® Cell Oil	100-619-600	1 or 5	Blue
1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against				
Identified Use	SMRT Cell Oil is for use with the Pacific Biosciences PacBio® RSII system. Sequel® SMRT Cell Oil is for use with the Pacific Biosciences Sequel® or Sequel® II 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 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 Subcomponents are classified as follows.				
	Subcomponent Name	Part #	Classification	
	SMRT® Cell Oil	100-192-000	Not a hazardous substance or mixture.	
	Sequel® SMRT® Cell Oil	100-619-600	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	SMRT® Cell Oil, Sequel® SMRT® Cell Oil, Mineral oil			
CAS Number	8042-47-5			

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

Other unique identifiers		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.	
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	
	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	Clear colorless viscous liquid
Odor	Odourless
Odor Threshold	Not applicable
pH	No data available
Melting point/freezing point	-14.99°C (5.02°F) at ca.1013 hPa
Initial boiling point and boiling range	218-800°C (424-1472°F) at ca.1013 hPa
Flash point	> 160°C (>320°F) – ASTM D93 (Pensky-Martens closed cup)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limit	No data available
Vapor pressure	<= 0.0001 hPa at ca. 20°C (68°F) – OECD Test Guideline
Relative density	0.84 g/ml at 25°C (77°F)
Solubility(ies)	No data available
Partition coefficient: n-octonal/water	No data available
Auto-ignition temperature	325-355°C (617-671°F) at ca.1013 hPa
Decomposition temperature	No data available
Viscosity	>20.5 mm ² /s at 40°C (104°F)
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	Avoid contact with 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	May include: laxative effect, gastrointestinal disturbance
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	LD50 Oral, Rat (male & female) - > 5000 mg/kg (OECD Test Guideline 401) LD50 Inhalation, Rat (male & female) – 4h - > 5 mg/l (OECD Test Guideline 403) LD50 Dermal, Rabbit (male & female) – > 2000 mg/kg (OECD Test Guideline 402)
Skin corrosion/irritation	Skin – Rabbit; Result: No eye irritation – 72 h (OECD Test Guideline 404)
Serious eye damage/irritation	Eyes – Rabbit; Result: No eye irritation – 72 h (OECD Test Guideline 405)

Respiratory or skin sensitization	Buehler Test – Guinea pig; Did not cause sensitization on laboratory animals (OECD Test Guideline 406)
Germ cell mutagenicity	No data available Reverse mutation assay, S.typhimurium; Result: negative OECD Test Guideline 474 Mouse (male & female) Bone marrow; Result: negative
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	Static test LL50 – Orcoerhynchus mykiss (rainbow trout) - >100 mg/l – 96h (OECD Test Guideline 203) Static test LL50 – Daphnia magna (water flea) - >100 mg/l – 48h (OECD Test Guideline 202)
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	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	Listed on the TSCA inventory
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 California, Inc. 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. For Research Use Only. Not for use in diagnostic procedures. © Copyright 2019, 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/>.

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 Agilent Technologies. All other trademarks are the sole property of their respective owners.