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Rev. 02

SDS PN: 103-230-100

1. Product and company identification				
<b>1.1 Product identifier</b>				
Product name	Kinnex™ PCR 12-fold kit			
Product number(s)	103-071-700			
Other means of identification	This product is a box containing 15 tubes.			
	<i>Subcomponent name</i>	<i>Part #</i>	<i>#</i>	<i>Cap color</i>
	Kinnex PCR mix	103-107-700	3	green
	Kinnex primer mix A	103-107-800	1	orange
	Kinnex primer mix B	103-107-900	1	orange
	Kinnex primer mix C	103-108-000	1	orange
	Kinnex primer mix D	103-108-100	1	orange
	Kinnex primer mix E	103-108-200	1	orange
	Kinnex primer mix F	103-108-300	1	orange
	Kinnex primer mix G	103-108-400	1	orange
	Kinnex primer mix H	103-153-000	1	orange
	Kinnex primer mix I	103-153-100	1	orange
	Kinnex primer mix J	103-153-200	1	orange
	Kinnex primer mix K	103-153-300	1	orange
	Kinnex primer mix LQ	103-144-000	1	orange
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>				
Identified use	The Kinnex PCR 12-fold kit contains reagents and oligos to be used in conjunction with the Kinnex concatenation kit to produce a 12-fold concatenated Kinnex library.			
Restrictions on use	Research use only.			
<b>1.3 Details of the supplier of the substance or mixture</b>				
Supplier name and address	Pacific Biosciences of California, Inc. 1305 O'Brien Drive Menlo Park, CA 94025 USA <a href="https://www.pacb.com">https://www.pacb.com</a>			
Supplier phone	+1.650.521.8000			
<b>1.4 Emergency telephone number</b>				
Within USA and Canada	Call CHEMTREC 1-800-424-9300 (reference CCN# 656805)			
Outside USA and Canada	techsupport@pacb.com			

2. Hazard(s) identification				
<b>2.1 Classification of the substance or mixture</b>				
The kit contains hazardous substances or mixtures. <sup>1</sup> Subcomponents are classified as follows.				
<i>Subcomponent name</i>	<i>Part #</i>	<i>Classification</i>		
Kinnex PCR mix	103-107-700	Acute toxicity, oral (Category 5); Skin irritant (Category 3), Single target organ toxicity, single exposure (Category 1)		
Kinnex primer mix A	103-107-800	Not a hazardous substance or mixture.		
Kinnex primer mix B	103-107-900	Not a hazardous substance or mixture.		
Kinnex primer mix C	103-108-000	Not a hazardous substance or mixture.		
Kinnex primer mix D	103-108-100	Not a hazardous substance or mixture.		
Kinnex primer mix E	103-108-200	Not a hazardous substance or mixture.		
Kinnex primer mix F	103-108-300	Not a hazardous substance or mixture.		
Kinnex primer mix G	103-108-400	Not a hazardous substance or mixture.		
Kinnex primer mix H	103-153-000	Not a hazardous substance or mixture.		
Kinnex primer mix I	103-153-100	Not a hazardous substance or mixture.		
Kinnex primer mix J	103-153-200	Not a hazardous substance or mixture.		
Kinnex primer mix K	103-153-300	Not a hazardous substance or mixture.		
Kinnex primer mix LQ	103-144-000	Not a hazardous substance or mixture.		
<b>2.2 GHS label elements and precautionary statements</b>				
Information is provided for the hazardous components listed in section 2.1.				
<i>Product</i>	<i>Pictogram</i>	<i>Signal word</i>	<i>Hazard statement(s)</i>	<i>Precautionary statement(s)</i>
Kinnex PCR mix		Danger	<ul style="list-style-type: none"> <li>• May be harmful if swallowed.</li> <li>• Causes mild skin irritation.</li> <li>• Causes damage to organs, central nervous system, oral route</li> </ul>	<ul style="list-style-type: none"> <li>• Do not eat, drink, or smoke when using the product.</li> <li>• Do not breath mist, vapors, or spray.</li> <li>• Wash skin thoroughly after handling.</li> <li>• If swallowed: Get medical help.</li> <li>• If skin irritation occurs: Get medical help.</li> <li>• If exposed or concerned: Get emergency medical help immediately.</li> <li>• Store locked up.</li> <li>• Dispose of contents/container in accordance with local regulations.</li> </ul>
<b>2.3 Hazards not otherwise classified (HNOC) or not covered by GHS</b>				
None.				
3. Composition / information on ingredients				
<b>3.1 Substances</b>				
Common name and synonyms		Kinnex PCR 12-fold kit		
Cas number		None		
Other unique identifiers		None		
<b>3.2 Hazardous components</b>				
The Kinnex PCR mix contains the following hazardous ingredients. The other reagent tubes do not contain hazardous ingredients				

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

<b>Product</b>	<b>Hazardous Ingredient(s)</b>	<b>CAS</b>	<b>GHS Classification</b>	<b>Concentration (wt%)</b>
Kinnex PCR mix	Tetramethylammonium chloride	75-57-0	Acute toxicity, oral (Category 2); Acute toxicity, dermal (Category 3); Skin irritation (Category 2); Specific target organ toxicity – single exposure, oral (Category 1), central nervous system; Chronic aquatic toxicity (Category 2)	1 - < 2.5 %
<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. Follow the general practices listed for all components and specific practices as noted. <ul style="list-style-type: none"> <li>Kinnex PCR Mix: If exposed or concerned: Get emergency medical help immediately.</li> </ul>			
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration.			
In case of skin contact	Wash off with water. <ul style="list-style-type: none"> <li>Kinnex PCR Mix: If skin irritation occurs, get medical help.</li> </ul>			
In case of eye contact	Flush eyes with water.			
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. <ul style="list-style-type: none"> <li>Kinnex PCR Mix: If swallowed, get medical help.</li> </ul>			
<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 and nitrogen.				
<b>5.3 Advice for firefighters (special protective equipment or precautions)</b>				
Wear self-contained breathing apparatus for firefighting as necessary.				
<b>6. Accidental release measures</b>				
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>				
Avoid breathing vapors, mist, 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. In addition to the general practices, follow specific practices as noted. <ul style="list-style-type: none"> <li>Kinnex PCR mix: Do not eat, drink, or smoke when using the product. Do not breath mist, vapors, or spray. Wash skin thoroughly after handling</li> </ul>				
<b>7.2 Conditions for safe storage, including any incompatibilities</b>				
Keep containers tightly closed at the recommended storage temperature. <ul style="list-style-type: none"> <li>Kinnex PCR mix: Store locked up</li> </ul>				

<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>	
<b>Appropriate engineering 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	All tubes contain clear colorless liquids.
Odor	No odor
Odor threshold	No data available
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	No data available
Conditions to avoid	No data available
Incompatible materials	Avoid contact with strong acids, bases and 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
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 (RCRA, federal) waste codes	No EPA ID number. Not regulated as a US federal hazardous waste.
State waste codes	Check your state regulations to determine applicable waste codes.
<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	The following reagents have the SARA hazards listed. Other components have no SARA hazards. <ul style="list-style-type: none"> <li>Kinnex PCR Mix: Specific target organ toxicity (single exposure)</li> </ul>
TSCA	Research use only
<b>15.2 USA state regulations</b>	
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 USA 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>Research use only. Not for use in diagnostic procedures. ©2023, Pacific Biosciences of California, Inc. ("PacBio"). All rights reserved. Information in this document is subject to change without notice. PacBio 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 PacBio products and/or third-party products. Refer to the applicable PacBio terms and conditions of sale and to the applicable license terms at <a href="https://pacb.com/license">pacb.com/license</a>. Pacific Biosciences, the PacBio logo, PacBio, Circulomics, Omniome, SMRT, SMRTbell, Iso-Seq, Sequel, Nanobind, SBB, Revio, Onso, Apton and Kinnex are trademarks of PacBio.</p>