

SAFETY DATA SHEET

1 μ M App-D Barcode Primer 2

1. Identification

1.1 Product identifier

Product name: 1 μ M App-D Barcode Primer 2

Product number: 1000028599, 530-003312-00, 530-004742-00

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended restrictions: For research users only.

1.3. Details of the supplier of the safety data sheet

Company	Complete Genomics, Inc.
Address	2904 Orchard Parkway San Jose, CA 95134
Web	www.completegenomics.com
E-mail	US-CustomerService@completegenomics.com
TEL.	+1 (888) 811-9644

1.4. Emergency telephone

Emergency phone number	800-424-9300 CHEMTREC(USA)
	+1-703-527-3887 CHEMTREC(International)
	24 Hours/day; 7 Days/week

2. Hazard(s) identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 Label elements

Labelling

Hazard pictograms: No

Signal word: No

Hazard statements: No

Precautionary statements:

Prevention:

Not CLP prevention statements.

Response:

Not CLP response statements.

Storage:

Not CLP storage statements.

Disposal:

Not CLP disposal statements.

2.3 Hazards classified under paragraph (d)(1)(ii) of § 1910.12000

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A change in chemical's physical form No information available
 Chemical reaction products associated with known or reasonably anticipated uses or applications No information available

2.4 Other hazards which do not result in classification

Other hazards which do not result in classification : No information available

2.5 Unknown acute toxicity (GHS US)

No additional information available.

3. Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

This product contains the following hazards within the meaning of the relevant state and federal Hazardous substances regulations.

ingredient	CAS-No.	EC No.	Concentration (% w/w)	Classification
Water	7732-18-5	231-791-2	>99%	Non- Classification
Sodium chloride	7647-14-5	231-598-3	<0.1%	Non- Classification
Trisodium citrate	68-04-2	200-675-3	<0.1%	Non- Classification

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

4.1 Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

4.2 Most important symptoms and effects, both acute and delayed

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Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

4.3 Indication of any immediate medical attention and special treatment needed

1. Treat symptomatically.
2. Symptoms may be delayed.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
Unsuitable extinguishing media: Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.
Keep away from heat, sparks, open flames, and other ignition sources - No smoking.
Keep container tightly closed.
Keep cool.
Ground, bond container and receiving equipment.
Use explosion-proof electrical, ventilating, light, equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust, fume, gas, mist, vapors, spray.

5.3. Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

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Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

1. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
2. Do not touch or walk through spilled material.
3. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
4. Ensure adequate ventilation. Remove all sources of ignition.
5. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
6. Use personal protective equipment. Avoid breathing vapours, mist or gas.

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6.2 Environmental precautions

- 1.Prevent product from entering drains.
- 2.Prevent further leakage or spillage if safe to do so.
- 3.If there is pollution in the sewer or waterway, please report to the local authorities.

6.3 Methods and material for containment and cleaning up

a lot of leaks:

Use an inert absorbent material such as sand or soil to absorb spillage.

Collect spilled product and place it in a sealable container or bucket for disposal.

Clean contaminated areas and objects with plenty of water and detergent.

Small amount of leakage:

Absorbing materials such as sand or soil absorb spillage.

Collect spilled product and place it in a sealable container for disposal.

Clean contaminated areas and objects with water and detergent

6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

Section 7. Handling and storage

7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: No available information

Check section 2.2 (GHS Label Elements) for further details. - [Storage]:

7.3. Specific end use(s)

No available information

Section 8. Exposure controls / personal protection

8.1 Control parameters

No additional information available.

8.2 Appropriate engineering controls

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Appropriate engineering controls
Environmental exposure controls

Ensure good ventilation of the work station.
Avoid release to the environment.

8.3 Personal protective equipment

Respiratory protection: In the case of vapor formation use a respirator with an approved filter.

Eye protection: Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection: Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hand protection: Protective gloves
Use specific protective gloves for specific locations.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance and shape:	Clear, colorless liquid
odor:	Odorless
pH value:	no data
Melting point / freezing point:	no data
Boiling point:	no data
Flash point:	no data
Upper explosion limit:	no data
Lower explosion limit:	no data
Vapor Pressure:	no data
Vapor density	>1
density	\approx 1
Solubility	Soluble in water
N-octanol/water partition coefficient	No data
Auto-ignition temperature	No data
Decomposition temperature	No data

9.2 Other information

None data.

Section 10. Stability and reactivity

10.1 Reactivity

Contact with incompatible substances can cause decomposition or other chemical reactions.

10.2 Chemical Stability

Stable under the recommended storage conditions.

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10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled within normal conditions of use.

10.4. Conditions to avoid

Avoid extremes of temperature and direct sunlight.

Avoid contact with incompatible materials.

10.5 Incompatible materials

Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.

10.6 Hazardous decomposition products

Oxides of carbon and nitrogen, smoke and other toxic fumes

Section 11. Toxicological information

11.1 Acute toxicity

Ingredient	Oral LD50, mg/kg	Dermal LD50, mg/kg	Inhalation LC50
Sodium chloride	3550	> 10000	> 42 mg/L air
Trisodium citrate	5 400	> 2 000	No data

Skin corrosion/irritation

Based on available data, the classification criteria are not met

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met

Respiratory or skin allergies

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Based on available data, the classification criteria are not met

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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Reproductive toxicity

Based on available data, the classification criteria are not met

Specific target organ toxicity (one exposure)

Based on available data, the classification criteria are not met

Specific target organ system toxicity (repeated exposure)

Based on available data, the classification criteria are not met

Aspiration hazard

Based on available data, the classification criteria are not met

Symptoms/effects

No data

Section 12. Ecological information

12.1 Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 invertebrates, mg/L	ErC50 algae, mg/L
Sodium chloride	5840	1 900	2430
Trisodium citrate	590	2 055	640

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

No available information

12.4. Mobility in soil

No available information

12.5. Other adverse effects

No available information

Section 13. Disposal considerations

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13.1. Waste treatment methods

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

Section 14. Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

UN-No.(DOT)	Not regulated
UN-No.(TDG)	Not regulated
UN-No.(IMDG)	Not regulated
UN-No.(IATA)	Not regulated

14.2. UN proper shipping name

Proper Shipping Name (DOT)	Not regulated
Proper Shipping Name (TDG)	Not regulated
Proper Shipping Name (IMDG)	Not regulated
Proper Shipping Name (IATA)	Not regulated

14.3. Transport hazard class(es)

DOT	
Transport hazard class(es) (DOT)	Not regulated
TDG	
Transport hazard class(es) (TDG)	Not regulated
IMDG	
Transport hazard class(es) (IMDG)	Not regulated
IATA	
Transport hazard class(es) (IATA)	Not regulated

14.4. Packing group

Packing group (DOT)	Not regulated
Packing group (TDG)	Not regulated
Packing group (IMDG)	Not regulated
Packing group (IATA)	Not regulated

14.5. Environmental hazards

Other information	No supplementary information available.
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14.6. Transport in bulk (according to IMO instruments)

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Not applicable

14.7. Special precautions for user

DOT
Not regulated
TDG
Not regulated
IMDG
Not regulated
IATA
Not regulated

Section 15. Regulatory information

15.1 Regulatory Overview:

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

15.2 Toxic Substance Control Act (TSCA):

All components of this material are either listed or exempt from listing on the TSCA Inventory.

15.3 US EPA Tier II Hazards

Fire:	No
Sudden Release of Pressure:	No
Reactive:	No
Immediate (Acute):	No
Delayed (Chronic):	No

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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Section 16. Other information

Abbreviations and acronyms

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European INventory of Existing Commercial chemical Substances/European List of Notified Chemical Substances
ENCS - Japanese Existing and New Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances
KECL - Korea Existing Chemicals List
PICCS - The Philippine Inventory of Chemicals and Chemical Substances
AICS - The Australian Inventory of Chemical Substances
LD50 - Median lethal dose i.e. Lethal Dose, 50%
LC50 - Lethal concentration 50%
UNRTDG - UN Recommendations on the Transport of Dangerous Goods
IMDG - International Maritime Dangerous Goods
IATA - The International Air Transport Association (The latest edition).

Key literature references and sources for data

ECHA: <http://echa.europa.eu/>
IFA GESTIS: [http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng](http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng)
eChemPortal: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
HSDB: <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
ICSC: <http://www.ilo.org/dyn/icsc/showcard.home>
NITE-CHRIP: http://www.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Full text of H-Statements:

NO data.

Training advice

NO data.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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