

Wash Buffer 2

SAFETY DATA SHEET



SECTION 1: Identification

1.1 Product identifier

Product Name : Wash Buffer 2
Product Number : 400-000005-00, 940-003019-00

1.2 Recommended use and restrictions on use

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1.3 Supplier details

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

1.4 Emergency telephone

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

SECTION 2: Hazard(s) Identification

2.1 Classification of the substance or mixture

The substance is not classified as hazardous according to the Globally Harmonized System (GHS)

2.2 GHS Label elements

GHS label elements : None
Hazard pictograms : None
Hazard statements : None
Precautionary statements : None
Prevention : No CLP prevention statements
Response : No CLP response statements
Storage : No CLP storage statements
Disposal : No CLP disposal statements

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

A change in chemical's physical form : No information available

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Wash Buffer 2

SAFETY DATA SHEET

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 is available.



SECTION 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	99.83%~99.85%	Not- Classified
Hydrochloric Acid	7647-01-0	231-595-7	0.01%	 Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318  Acute Tox. 4, H302; STOT SE 3, H335
Other components	-	-	0.14%~0.16%	Not- Classified

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

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Wash Buffer 2

SAFETY DATA SHEET

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 one feels 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 one feels 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.
Protection of first-aiders	Ensure that medical personnel are aware of the substance involved, take precautions to protect themselves, and prevent the spread of contamination.

4.2 Most important symptoms and effects (acute and delayed)

Substance accumulation in the human body may occur following repeated or long-term occupational exposure

4.3 Immediate medical attention and special treatment, if necessary

1. Treat symptomatically
2. Symptoms may be delayed

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Recommended extinguishing media	: Alcohol resistant foam, CO ₂ , powder, water spray
Unsuitable extinguishing media	: water jet

5.2 Special hazards arising from the mixture

Hazardous decomposition	: No hazardous decomposition data available
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Instructions below:

Keep away from heat, sparks, open flames, and other ignition sources – No smoking.

Keep container tightly closed.

Keep cool.

Receiving equipment and storage: Ground and bond all equipment during receiving, storage, and transfer to prevent static buildup.

HVAC: explosion-proof electrical, ventilating, light, equipment.

Use only non-sparking tools.

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Wash Buffer 2

SAFETY DATA SHEET



Take precautionary measures against static discharge.

Avoid breathing in dust, fumes, gas, mist, vapors, and sprays.

5.3 Advice for fire-fighters

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

ERG Guide No. 128

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 without 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 in vapors, mists or gases.

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

Large amount of leakage:	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:	Use absorbing materials such as sand or soil to 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.

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Wash Buffer 2

SAFETY DATA SHEET

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

7.2 Conditions for safe storage, including any incompatibilities

Incompatible materials: No available information

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

7.3 Specific end use(s)

No available information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No additional information is available.

8.2 Appropriate engineering controls

Appropriate engineering controls	Ensure good ventilation of the workstation.
Environmental exposure controls	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 workplace.
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:	: 6.99-7.19 (at 25°C)
Melting point / freezing point:	: No data
Boiling point:	: No data
Flash point:	: No data
Upper explosion limit:	: No data
Lower explosion limit:	: No data

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Wash Buffer 2

SAFETY DATA SHEET

Vapor pressure:	: No data
Vapor density	>1
Density	≈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

No 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.

10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled with 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

Alkalis, sodium, calcium, and other active metals; halogens; metal oxides; non-metal oxides; acyl halides; and metal phosphides.

10.6 Hazardous decomposition products

Oxides of carbon and nitrogen, smoke, and other toxic fumes.

SECTION 11: Toxicological information

11.1 Acute toxicity

<i>Ingredient</i>	<i>Oral LD50,mg/kg</i>	<i>Inhalation Gas LC50, ppm</i>	<i>Inhalation Vapor LC50,mg/L/4hr</i>
<i>Hydrochloric acid</i>	No data available	3124	781

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Wash Buffer 2

SAFETY DATA SHEET

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 a probable, possible or confirmed human carcinogen.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity	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

<i>Ingredient</i>	<i>96 hr LC50 fish, mg/L</i>	<i>48 hr EC50 crustacea, mg/L</i>	<i>ErC50 algae, mg/L</i>
<i>Hydrochloric acid</i>	20.5	0.45	0.73

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

13.1 Waste treatment methods

Waste chemicals	Before disposal, refer to the relevant national and local laws and regulations. Incineration disposal is recommended.
Contaminated packaging	Containers may still present chemical hazards when empty. Keep away from heat and ignition sources. Return to supplier for recycling if possible.

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Wash Buffer 2

SAFETY DATA SHEET

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
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TDG

Transport hazard class(es) (TDG)	: Not regulated
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IMDG

Transport hazard class(es) (IMDG)	: Not regulated
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IATA

Transport hazard class(es) (IATA)	: Not regulated
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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 is available.
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14.6 Transport in bulk (according to IMO instruments)

Not applicable.

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Wash Buffer 2

SAFETY DATA SHEET



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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SAFETY DATA SHEET

SECTION 16: Other information

16.1 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

16.2 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-CHIRP: 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 at the date of its publication. The information given is designed only as 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.

Wash Buffer 2

SAFETY DATA SHEET



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