

MATERIAL SAFETY DATA SHEET

www.paragongenomics.com

Version: 8160004

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1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name:	CleanPlex Single-Indexed PCR Primers for Ion Torrent™
Product Number:	716016; 716041; 716042; 716043; 716044; 716053; 716054; 716055; 716056 716007; 716008; 716009; 716010

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

Identified uses: Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company:	Paragon Genomics
	3521 Investment Blvd
	Hayward, CA 94545 USA
Telephone	1-415-535-8783
Web	www.paragongenomics.com

1.4 Emergency telephone number

Emergency Phone #	1-415-535-8783
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2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

2.4 Principle Routes of Exposure

Potential Health Effects

eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.

Specific effects

Carcinogenic effects	None
Mutagenic effects	None
Reproductive toxicity	None
Sensitization	None
Target Organ Effects	No known effects under normal use conditions

HMIS

Health	0
Flammability	0
Reactivity	0

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Glycerol
CAS-No.	56-81-5
EINECS-No	200-289-5
Weight %	40-70

No components need to be disclosed according to the applicable regulations.

4 FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact

Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms persist, call a physician. Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx)

5.3 Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Exposure Limits

Chemical Name:	Glycerol
OSHA PEL:	15 mg/m ³ 5 mg/m ³
OSHA PEL (Ceiling):	None
ACGIH OEL (TWA):	None
ACGIH OEL (STEL):	None

Personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Skin protection	Handle with gloves.
Hand protection	Impervious gloves.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

Control of environmental exposure

No special environmental precautions required.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Form:	Liquid	Colour:	None
Odour	No data available			
Odour Threshold	No data available			
pH	8 at 10 g/l at 25 °C			
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 limits	No data available			
Vapour pressure	No data available			
Vapour density	No data available			
Relative density	No data available			
Water solubility	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			
Explosive properties	No data available			
Oxidizing properties	No data available			

9.2 Other safety information

No data available

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions/Materials to avoid

No dangerous reaction known under conditions of normal use.

10.5 Polymerization

Hazardous polymerization does not occur.

10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Chemical Name	Glycerol
LD50 (oral, rat/mouse)	12600 mg/kg Oral
LD50 (dermal, rat/rabbit)	No data available
LC50 (inhalation, rat/mouse)	>570mg/m ³ (Rat)

11.2 Principle Routes of Exposure and Potential Health Effects

Eyes	May cause eye irritation with susceptible persons
Skin contact	May cause skin irritation in susceptible persons
Inhalation	May be harmful by inhalation
Ingestion	May be harmful if swallowed
Carcinogenic effects	None
Mutagenic effects	None
Reproductive toxicity	None
Sensitization	None
Target Organ Effects	No known effects under normal use conditions

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Chemical Name:	Glycerol
Freshwater Algae Data:	
Water Flea Data:	
Freshwater Fish:	
Species Data:	
Microtox Data:	
log Pow:	logPow-1.76

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Material does not bioaccumulate

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Dispose of contents/containers in accordance with local regulations.

Contaminated packaging

Dispose of as unused product.

14 TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Proper Shipping Name	No dangerous good in sense of these transport regulations
Hazard Class	None
Subsidiary class	None
Packing group	None
UN-No	None

15 REGULATORY INFORMATION

Component
TSCA

Glycerol (56-81-5)
Listed

US Federal Regulations

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

US State Regulations

Chemical Name	Glycerol
Massachusetts - RTK	Listed
New Jersey - RTK	-
Pennsylvania - RTK	Listed
Illinois - RTK	-
Rhode Island - RTK	Listed

California Prop. 65 Components

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16 OTHER INFORMATION

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	0
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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End of Safety Data Sheet