

Phone:

Safety Data Sheet Summary

VariantPlex® Reagents for Illumina®

1 Product and company identification

Supplier Address: Integrated DNA Technologies, Inc. (IDT)

2425 55th Street

Boulder, CO 80301 877-771-1093

Fax: 303-736-7150

Email:archer-tech@idtdna.comWeb:http://www.archerdx.com/

Emergency telephone

number: For Spill, Leak, Fire, Exposure, or Accident

CHEMTREC

Within USA and Canada: 1-800-424-9300 CCN871892

Outside USA and Canada: +1 703-527-3887

(collect calls accepted)

VariantPlex® Reagents for Illumina® contains the following parts:

Kit Number	SDS Number	Part Description
SK0096 SK0098 SK0127	SDS0053	DNA Fragmentation, End Repair, dA-Tailing
	SDS0051	Adapter Ligation
	SDS0062	First PCR (Illumina®-P)
	SDS0063	Second PCR Reactions 1 thru 8 (Illumina®-P)



DNA Fragmentation, End Repair, dA-tailing

1 Product and company identification

Product identifier: DNA Fragmentation, End Repair, dA-tailing

SDS number: SDS0053

Version: 2

Internal ID: SA0039

SA0118 SA0672

Relevant identified uses of the substance or mixture

and uses advised against: For research use only. Not for use in diagnostic procedures.

Supplier details: Integrated DNA Technologies, Inc. (IDT)

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Within USA and Canada: 1-800-424-9300 CCN871892

Outside USA and Canada: +1 703-527-3887

(collect calls accepted)

Further information: This sheet was prepared on a voluntary basis.

2 Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture (GHS-US, 1272/2008- EU)

Label elements

Not a hazardous substance or mixture (GHS-US, 1272/2008- EU)

Other hazards

None

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DNA Fragmentation, End Repair, dA-tailing

3 Composition/information on ingredients

Ingredients

This product contains no substances that are hazardous as defined in Section 2.

4 First aid measures

Description of first aid measures

General Information: In case of accident or unwellness, seek medical advice immediately

(show directions for use or safety data sheet if possible).

Inhalation: In case of inhalation: move affected person to fresh air and keep at

rest. If not breathing, give artificial respiration. If symptoms are

severe or persist, seek medical advice immediately.

Skin Contact: Immediately remove all contaminated clothing. After contact with

skin, wash immediately with plenty of water and soap. If skin irritation

or rash occurs: Get medical advice/attention.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Keep

eye wide open while rinsing. Remove contact lenses, if present and

easy to do. Continue rinsing for several minutes. Get medical

attention if any discomfort continues.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Rinse mouth thoroughly with water. When in doubt or if symptoms are observed, get medical advice/attention.

Most important symptoms and effects,

both acute and delayed: The most important known symptoms and effects are described in

labelling (see Section 2) and/or in Section 11.

Indication of any immediate medical attention and special

treatment needed: No data available



DNA Fragmentation, End Repair, dA-tailing

5 Firefighting measures

Extinguishing media

Suitable extinguishing media: Extinguish with water fog, alcohol-resistant foam, dry

chemical, or carbon dioxide.

Specific hazards arising from the chemical:

Carbon oxides (CO, CO2)
Nitrogen oxides (NOx)
Chlorine compounds
Magnesium oxides

Special hazards arising from the substance or mixture:

Exposure to decomposition products may be a hazard to

health. Gaseous hydrogen chloride (HCI).

Advice for firefighters: In case of fire: Wear self-contained breathing apparatus.

6 Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Avoid inhalation of dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate untrained or unnecessary personnel to safe areas. For personal protection see Section 8.

Environmental precautions

Do not allow to enter surface water or drains. Discharge into the environment must be avoided. Prevent spread over a wide area (e.g., by containment or oil barriers).

Methods and materials for containment and cleaning up

Clear up spills immediately. Avoid creating dust. Clean any contaminated surfaces thoroughly. Mop up small spills. Dike area with sand or other inert material for large spills. Disposal should be in accordance with Section 13. Keep in suitable, closed containers for disposal.

References to other sections

Safe handling: See Section 7.

Personal Protective Equipment: See Section 8.

Disposal: See Section 13.



DNA Fragmentation, End Repair, dA-tailing

7 Handling and storage

Precautions for safe handling

Advice on safe handling: Ensure adequate ventilation, especially in confined areas.

Smoking, eating, and drinking should be prohibited in application

area.

Normal measures for preventative fire protection. Wear suitable protective clothing (See section 8).

Avoid contact with eyes or repeated or prolonged contact with skin.

Avoid inhalation.

Launder to discard contaminated clothing.

Advice on protection against fire and explosion:

See Section 5.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep in original or labeled container.

Keep container closed and store in cool, dry place.

Recommended storage temperature: 4°C/40°F.

Further information on storage conditions:

Protect against: Light. UV-radiation/sunlight. Extreme heat. Extreme

cold. Moisture.

Specific end use(s): Apart from the uses mentioned in Section 1 no other specific uses

are stipulated.



DNA Fragmentation, End Repair, dA-tailing

8 Exposure controls/personal protection

Control parameters: Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters/ Permissible concentration	Basis
Deoxyribonuclease	9003-98-9	IOEL	0.00006 mg/m3	Roche Industrial Hygiene Committee (RHIC)
Glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist total dust)	15 mg/m3	OSHA Z-1
		TWA (Total)	10 mg/m3	OSHA P0
		TWA (Respirable fraction)	5 mg/m3	OSHA P0
		TWA	10 mg/m3	ACGIH
		TWA (Mist – total dust)	10 mg/m3	OSHA P0
		TWA (Mist – respirable fraction)	5 mg/m3	OSHA P0

Hazardous components without workplace control parameters

Ingredients	CAS-No.
Magnesium chloride, hexahydrate	7791-18-6

Exposure controls

Appropriate engineering controls:

General industrial hygiene practice. Provide adequate ventilation, showers, and eyewash stations.

Protective and hygiene measures:

Always close containers tightly after the removal of product. Change contaminated clothing. Wash hands after working with product. When using do not eat, drink, or smoke.

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DNA Fragmentation, End Repair, dA-tailing

Eye/face protection: Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN

166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use

proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of

contaminated gloves after use in accordance with applicable laws

and good laboratory practices. Wash and dry hands.

Respiratory protection: If necessary, use respirator as a backup to engineering controls. Use

respirators and approved under appropriate government standards such as OSHA 29 CFR 1910.134 or European Standard EN 149.

Environmental exposure controls:

Decomposition temperature

Keep container tightly closed when not in use. Do not let product

enter drains.

9 Physical and chemical properties

Information on basic physical and chemical properties

Physical state Lyophilized powder

Color White

Odor Not determined pН Not applicable **Melting point** Not determined Initial boiling point and boiling range Not applicable Flash point Not applicable Sustaining combustion Not available Lower explosive limits Not available Not available **Upper explosive limits** Not available Ignition temperature Not available Oxidizing properties Vapor pressure (at 20°C) Not applicable Density (at 20°C) Not available Water solubility Not determined Solubility in other solvents Not available Not determined **Auto-ignition temperature**

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Not available



DNA Fragmentation, End Repair, dA-tailing

10 Stability and reactivity

Reactivity: Stable under recommended use and storage conditions.

Hydroscopic.

Chemical stability: Stable under recommended use and storage conditions.

Hydroscopic.

Possibility of hazardous reactions:

No data available.

Conditions to avoid: Strong oxidizing agents

Incompatible materials: None known

Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions:

Nature of decomposition products not known. In the event of fire:

see Section 5.

11 Toxicological information



DNA Fragmentation, End Repair, dA-tailing

Information on toxicological effects

Toxicokinetic, metabolism and distribution: No information available.

Acute toxicity:

Inhalation: No data available
Dermal: No data available
Irritation and corrosivity

Eye: May be irritating. Symptoms of eye irritation include pain, tearing, reddening, and swelling.

Skin: May be irritating. Symptoms include rash and redness.

Inhalation: May be irritating. Symptoms of respiratory irritation include runny nose, sore throat, cough, chest discomfort, shortness of breath and reduced lung function.

Sensitizing effects

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

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

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

Specific effects in experiment on an animal

No information available

Ingredients

Magnesium chloride, hexahydrate:

Acute oral toxicity: LD50 Oral (Rat): 8,100 mg/kg

Glycerol:

Acute oral toxicity: LD50 Oral (Rat): 12,000 mg/kg

Acute dermal toxicity: LD50 Dermal (Rabbit): 10,000 mg/kg

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DNA Fragmentation, End Repair, dA-tailing

Components

Calcium chloride dihydrate:

Acute oral toxicity: LD50 Oral (Rat): 1,000 mg/kg
Acute dermal toxicity: LD50 Dermal (Rat): 2,630 mg/kg

12 Ecological information

Toxicity

No information available.

Persistence and degradability

No information available

Bio accumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

No information available.

Other adverse effects

No information available.

Further information

Do not allow uncontrolled discharge of product into the environment.

13 Disposal considerations

Waste treatment methods

Waste generators must determine whether a waste is hazardous and consult local, state, and national hazardous was regulations to ensure complete accurate classification to endure proper disposal.

14 Transport information

DOT (US)

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DNA Fragmentation, End Repair, dA-tailing

Not a hazardous material.

IMDG

Not a dangerous goods.

IATA

Not dangerous goods.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

See Section 8.

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

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 (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 hazards:

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

16 Other information

Disclaimer:

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For research use only. Not for use in diagnostic procedures. May 2023.



DNA Fragmentation, End Repair, dA-tailing

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall IDT be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if IDT has been advised of the possibility of such damages.

Abbreviations and acronyms:

CAS Chemical Abstracts Service

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport

Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

N/A: not applicable

OSHA: Occupational Safety and Health Administration

PBT: Persistent bioaccumulative toxic

SARA: Superfund Amendments and Reauthorization Act

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



Adapter Ligation

1 Product and company identification

Product identifier: Adapter Ligation

SDS number: SDS0051

Version: 2

Internal ID: SA0005

SA0116 SA0676

Relevant identified uses of the substance or mixture

and uses advised against: For research use only. Not for use in diagnostic procedures.

Supplier details: Integrated DNA Technologies, Inc. (IDT)

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Emergency telephone

number: For Spill, Leak, Fire, Exposure, or Accident

CHEMTREC

Within USA and Canada: 1-800-424-9300 CCN871892

Outside USA and Canada: +1 703-527-3887

(collect calls accepted)

Further information: This sheet was prepared on a voluntary basis.

2 Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture (GHS-US, 1272/2008- EU)

Label elements

Not a hazardous substance or mixture (GHS-US, 1272/2008- EU)

Other hazards

None

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Adapter Ligation

3 Composition/information on ingredients

Ingredients

This product contains no substances that are hazardous as defined in Section 2.

4 First aid measures

Description of first aid measures

General information: In case of accident or unwellness, seek medical advice immediately

(show directions for use or safety data sheet if possible).

Inhalation: In case of inhalation: move affected person to fresh air and keep at

rest. If not breathing, give artificial respiration. If symptoms are

severe or persist, seek medical advice immediately.

Skin contact: Immediately remove all contaminated clothing. After contact with

skin, wash immediately with plenty of water and soap. If skin irritation

or rash occurs: Get medical advice/attention.

Eye contact: Rinse immediately with plenty of water for at least 15 minutes. Keep

eye wide open while rinsing. Remove contact lenses, if present and

easy to do. Continue rinsing for several minutes. Get medical

attention if any discomfort continues.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Rinse mouth thoroughly with water. When in doubt or if symptoms are observed, get medical advice/attention.

Most important symptoms and effects,

both acute and delayed: The most important known symptoms and effects are described in

labelling (see Section 2) and/or in Section 11.

Indication of any immediate medical attention and special

treatment needed: No data available



Adapter Ligation

5 Firefighting measures

Extinguishing media

Suitable extinguishing media: Extinguish with water fog, alcohol-resistant foam, dry

chemical, or carbon dioxide.

Specific hazards arising from the chemical:

Carbon oxides (CO, CO2)
Nitrogen oxides (NOx)
Chlorine compounds
Magnesium oxides

Special hazards arising from the substance or mixture:

Exposure to decomposition products may be a hazard to

health.

Advice for firefighters: In case of fire: Wear self-contained breathing apparatus.

6 Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Avoid inhalation of dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate untrained or unnecessary personnel to safe areas. For personal protection see Section 8.

Environmental precautions

Do not allow to enter surface water or drains. Discharge into the environment must be avoided. Prevent spread over a wide area (e.g., by containment or oil barriers).

Methods and materials for containment and cleaning up

Clear up spills immediately. Avoid creating dust. Clean any contaminated surfaces thoroughly. Mop up small spills. Dike area with sand or other inert material for large spills. Disposal should be in accordance with Section 13. Keep in suitable, closed containers for disposal.

Reference to other sections

Safe handling: See Section 7.

Personal Protective Equipment: See Section 8.

Disposal: See Section 13.



Adapter Ligation

7 Handling and storage

Precautions for safe handling

Advice on safe handling: Ensure adequate ventilation, especially in confined areas.

Smoking, eating, and drinking should be prohibited in application

area.

Normal measures for preventative fire protection. Wear suitable protective clothing (See section 8).

Avoid contact with eyes or repeated or prolonged contact with skin.

Avoid inhalation.

Launder or discard contaminated clothing.

Advice on protection against fire and explosion:

See Section 5.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep in original or labeled container.

Keep container closed and store in cool, dry place.

Recommended storage temperature: 4°C/40°F.

Further information on storage conditions:

Protect against: Light. UV-radiation/sunlight. Extreme heat. Extreme

cold. Moisture.

Specific end use(s): Apart from the uses mentioned in Section 1 no other specific uses

are stipulated.



Adapter Ligation

8 Exposure controls/personal protection

Control parameters: Hazardous components without workplace control parameters

Ingredients	CAS-No.
Magnesium chloride, hexahydrate	7791-18-6

Exposure controls

Appropriate engineering controls:

General industrial hygiene practice. Provide adequate ventilation,

showers, and eyewash stations.

Protective and hygiene measures:

Always close containers tightly after the removal of product. Change

contaminated clothing. Wash hands after working with product.

When using do not eat, drink, or smoke.

Eye/face protection: Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN

166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use

proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of

contaminated gloves after use in accordance with applicable laws

and good laboratory practices. Wash and dry hands.

Respiratory protection: If necessary, use respirator as a backup to engineering controls. Use

respirators and approved under appropriate government standards such as OSHA 29 CFR 1910.134 or European Standard EN 149.

Environmental exposure controls:

Keep container tightly closed when not in use. Do not let product

enter drains.



Adapter Ligation

9 Physical and chemical properties

Information on basic physical and chemical properties

Physical state Lyophilized powder

Color White

Odor Not determined Hq Not applicable **Melting point** Not determined Initial boiling point and boiling range Not applicable Flash point Not applicable Sustaining combustion Not available Lower explosive limits Not available Not available **Upper explosive limits** Not available Ignition temperature Not available Oxidizing properties Vapor pressure (at 20°C) Not applicable Density (at 20°C) Not available Water solubility Not determined Solubility in other solvents Not available Not determined **Auto-ignition temperature** Not available **Decomposition temperature**



Adapter Ligation

10 Stability and reactivity

Reactivity: Stable under recommended use and storage conditions.

Hydroscopic.

Chemical Stability: Stable under recommended use and storage conditions.

Hydroscopic.

Possibility of hazardous reactions:

No data available.

Conditions to Avoid: Strong oxidizing agents

Incompatible materials: None known

Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO2), other possibly toxic smoke or fumes.

In the event of fire: see Section 5.

11 Toxicological information



Adapter Ligation

Information on toxicological effects

Toxicokinetic, metabolism and distribution: No information available.

Acute toxicity:

Inhalation: No data available Dermal: No data available

Ingredients

Magnesium chloride, hexahydrate:

Acute oral toxicity: LD50 Oral (Rat): 8,100 mg/kg

Irritation and corrosivity

Eye: May be irritating. Symptoms of eye irritation include pain, tearing, reddening, and swelling.

Skin: May be irritating. Symptoms include rash and redness.

Inhalation: May be irritating. Symptoms of respiratory irritation include runny nose, sore throat, cough, chest discomfort, shortness of breath and reduced lung function.

Sensitizing effects

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

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

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

Specific effects in experiment on an animal

No information available

12 Ecological information



Adapter Ligation

Toxicity

No information available.

Persistence and degradability

No information available

Bio accumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

No information available.

Other adverse effects

No information available.

Further information

Do not allow uncontrolled discharge of product into the environment.

13 Disposal considerations

Waste treatment methods

Waste generators must determine whether a waste is hazardous and consult local, state, and national hazardous was regulations to ensure complete accurate classification to endure proper disposal.

14 Transport information

DOT (US)

Not a hazardous material.

IMDG

Not a dangerous goods.

IATA

Not dangerous goods.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

See Section 8.

15 Regulatory information

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For research use only. Not for use in diagnostic procedures. May 2023.



Adapter Ligation

Safety, health and environmental regulations/legislation specific for the substance or mixture

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 (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 hazards:

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

16 Other information

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Adapter Ligation

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Abbreviations and acronyms:

CAS Chemical Abstracts Service

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport

Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

N/A: not applicable

OSHA: Occupational Safety and Health Administration

PBT: Persistent bioaccumulative toxic

SARA: Superfund Amendments and Reauthorization Act

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First PCR (Illumina®-P)

1 Product and company identification

Product identifier: First PCR (Illumina®-P)

SDS number: SDS0062

Version: 2

Internal ID: SA0109

SA0119

Relevant identified uses of the substance or mixture

and uses advised against: For research use only. Not for use in diagnostic procedures.

Supplier details: Integrated DNA Technologies, Inc. (IDT)

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(collect calls accepted)

Further information: This sheet was prepared on a voluntary basis.

2 Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture (GHS-US, 1272/2008- EU)

Label elements

Not a hazardous substance or mixture (GHS-US, 1272/2008- EU)

Other hazards

None



First PCR (Illumina®-P)

3 Composition/information on ingredients

Ingredients

This product contains no substances that are hazardous as defined in Section 2.

4 First aid measures

Description of first aid measures

General Information: In case of accident or unwellness, seek medical advice immediately

(show directions for use or safety data sheet if possible).

Inhalation: In case of inhalation: move affected person to fresh air and keep at

rest. If not breathing, give artificial respiration. If symptoms are

severe or persist, seek medical advice immediately.

Skin Contact: Immediately remove all contaminated clothing. After contact with

skin, wash immediately with plenty of water and soap. If skin irritation

or rash occurs: Get medical advice/attention.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Keep

eye wide open while rinsing. Remove contact lenses, if present and

easy to do. Continue rinsing for several minutes. Get medical

attention if any discomfort continues.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Rinse mouth thoroughly with water. When in doubt or if symptoms are observed, get medical advice/attention.

Most important symptoms and effects,

both acute and delayed: The most important known symptoms and effects are described in

labelling (see Section 2) and/or in Section 11.

Indication of any immediate medical attention and special

treatment needed: No data available



First PCR (Illumina®-P)

5 Firefighting measures

Extinguishing media

Suitable extinguishing media: Extinguish with water fog, alcohol-resistant foam, dry

chemical, or carbon dioxide.

Specific hazards arising from the chemical:

Carbon oxides (CO, CO2)

Sulfur oxides

Nitrogen oxides (NOx)

Special hazards arising from the substance or mixture:

Exposure to decomposition products may be a hazard to

health.

Advice for firefighters: In case of fire: Wear self-contained breathing apparatus.

6 Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Avoid inhalation of dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate untrained or unnecessary personnel to safe areas. For personal protection see Section 8.

Environmental precautions

Do not allow to enter surface water or drains. Discharge into the environment must be avoided. Prevent spread over a wide area (e.g., by containment or oil barriers).

Methods and materials for containment and cleaning up

Clear up spills immediately. Avoid creating dust. Clean any contaminated surfaces thoroughly. Mop up small spills. Dike area with sand or other inert material for large spills. Disposal should be in accordance with Section 13. Keep in suitable, closed containers for disposal.

References to other sections

Safe handling: See Section 7.

Personal Protective Equipment: See Section 8.

Disposal: See Section 13.



First PCR (Illumina®-P)

7 Handling and storage

Precautions for safe handling

Advice on safe handling: Ensure adequate ventilation, especially in confined areas.

Smoking, eating, and drinking should be prohibited in application

area.

Normal measures for preventative fire protection.

Wear suitable protective clothing (See section 8).

Avoid contact with eyes or repeated or prolonged contact with skin.

Avoid inhalation.

Launder or discard contaminated clothing.

Advice on protection against fire and explosion:

See Section 5.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep in original or labeled container.

Keep container closed and store in cool, dry place.

Recommended storage temperature: 4°C/40°F.

Further information on storage conditions:

Protect against: Light. UV-radiation/sunlight. Extreme heat. Extreme

cold. Moisture.

Specific end use(s): Apart from the uses mentioned in Section 1 no other specific uses

are stipulated.



First PCR (Illumina®-P)

8 Exposure controls/personal protection

Control parameters: Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters/ Permissible concentration	Basis
Dimethyl sulfoxide	67-68-5	TWA	250 ppm	US WEEL
Glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist- total dust)	10 mg/m3	OSHA P0
		TWA (Mist-respirable fraction)	5 mg/m3	OSHA P0

Exposure controls

Appropriate engineering controls:

General industrial hygiene practice. Provide adequate ventilation,

showers, eyewash stations.

Protective and hygiene measures:

Always close containers tightly after the removal of product. Change

contaminated clothing. Wash hands after working with product.

When using do not eat, drink, or smoke.

Eye/face protection: Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN

166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use

proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of

contaminated gloves after use in accordance with applicable laws

and good laboratory practices. Wash and dry hands.

Respiratory protection: If necessary, use respirator as a backup to engineering controls. Use

respirators and approved under appropriate government standards such as OSHA 29 CFR 1910.134 or European Standard EN 149.

Environmental exposure controls:

Keep container tightly closed when not in use. Do not let product

enter drains.

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First PCR (Illumina®-P)

9 Physical and chemical properties

Information on basic physical and chemical properties

Physical state Lyophilized powder

Color White

Odor Not determined Not available Hq **Melting point** Not determined Initial boiling point and boiling range Not applicable Flash point Not applicable Sustaining combustion Not available Lower explosive limits Not available Not available **Upper explosive limits** Not available Ignition temperature Oxidizing properties Not available Vapor pressure (at 20°C) Not applicable Density (at 20°C) Not available Water solubility Not determined Solubility in other solvents Not available Not determined **Auto-ignition temperature** Not determined **Decomposition temperature**



First PCR (Illumina®-P)

10 Stability and reactivity

Reactivity: Stable under recommended use and storage conditions.

Hydroscopic.

Chemical stability: Stable under recommended use and storage conditions.

Hydroscopic.

Possibility of hazardous reactions:

No data available.

Conditions to avoid: Strong oxidizing agents

Incompatible materials: None known

Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO2), other possibly toxic smoke or fumes.

In the event of fire: see Section 5.

11 Toxicological information

Information on toxicological effects

Toxicokinetic, metabolism and distribution: No information available.

Acute toxicity:

Inhalation: No data available

Dermal: No data available

Components

Dimethyl sulfoxide:

Acute oral toxicity: LD50 Oral (Rat): 14,500 mg/kg

Acute inhalation toxicity: LC50 (Rat): 40,250 mg/l, 40250 ppm

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity: LD50 Dermal (Rabbit): > 5,000 mg/kg

Glycerol:

Acute oral toxicity: LD50 Oral (Rat): 12,000 mg/kg

Acute dermal toxicity: LD50 Dermal (Rabbit): 10,000 mg/kg

Irritation and corrosivity

Eye: May be irritating. Symptoms of eye irritation include pain, tearing, reddening, and swelling.

Skin: May be irritating. Symptoms include rash and redness.

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First PCR (Illumina®-P)

Inhalation: May be irritating. Symptoms of respiratory irritation include runny nose, sore throat, cough, chest discomfort, shortness of breath and reduced lung function.

Sensitizing effects

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

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

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

Specific effects in experiment on an animal

No information available



First PCR (Illumina®-P)

12 Ecological information

Toxicity

No data available.

Components:

Dimethyl sulfoxide:

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 34,000 mg/l

Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 35,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other: EC50 (Daphnia pulex (Water flea)): 27,000 mg/l

aquatic invertebrates

Glycerol:

Toxicity to fish: LC0 (Leuciscus idus (Golden orfe)): > 250 mg/l

Exposure time: 48 h

Persistence and degradability

No data available

Bio accumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

No information available.

Other adverse effects

No information available.

Further information

Do not allow uncontrolled discharge of product into the environment.



First PCR (Illumina®-P)

13 Disposal considerations

Waste treatment methods

Waste generators must determine whether a waste is hazardous and consult local, state, and national hazardous was regulations to ensure complete accurate classification to endure proper disposal.

14 Transport information

DOT (US)

Not a hazardous material.

IMDG

Not a dangerous goods.

IATA

Not dangerous goods.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

See Section 8.

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

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 (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 hazards:

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

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First PCR (Illumina®-P)

16 Other information

Disclaimer:

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall IDT be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if IDT has been advised of the possibility of such damages.

Abbreviations and acronyms:

CAS Chemical Abstracts Service

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport

Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

N/A: not applicable

OSHA: Occupational Safety and Health Administration

PBT: Persistent bioaccumulative toxic

SARA: Superfund Amendments and Reauthorization Act

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



Second PCR Reactions 1 thru 8 (Illumina®-P)

1 Product and company identification

Product identifier: Second PCR Reactions 1 thru 8 (Illumina®-P)

SDS number: SDS0063

Version: 2

Internal ID: SA0110

SA0120

Relevant identified uses of the substance or mixture

and uses advised against: For research use only. Not for use in diagnostic procedures.

Supplier details: Integrated DNA Technologies, Inc. (IDT)

2425 55th Street Boulder, CO 80301

Phone: 877-771-1093 **Fax:** 303-736-7150

Email:archer-tech@idtdna.comWeb:http://www.archerdx.com/

Emergency telephone

number: For Spill, Leak, Fire, Exposure, or Accident

CHEMTREC

Within USA and Canada: 1-800-424-9300 CCN871892

Outside USA and Canada: +1 703-527-3887

(collect calls accepted)

Further information: This sheet was prepared on a voluntary basis.

2 Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture (GHS-US, 1272/2008- EU)

Label elements

Not a hazardous substance or mixture (GHS-US, 1272/2008- EU)

Other hazards

None



Second PCR Reactions 1 thru 8 (Illumina®-P)

3 Composition/information on ingredients

Ingredients

This product contains no substances that are hazardous as defined in Section 2.

4 First aid measures

Description of first aid measures

General Information: In case of accident or unwellness, seek medical advice immediately

(show directions for use or safety data sheet if possible).

Inhalation: In case of inhalation: move affected person to fresh air and keep at

rest. If not breathing, give artificial respiration. If symptoms are

severe or persist, seek medical advice immediately.

Skin Contact: Immediately remove all contaminated clothing. After contact with

skin, wash immediately with plenty of water and soap. If skin irritation

or rash occurs: Get medical advice/attention.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Keep

eye wide open while rinsing. Remove contact lenses, if present and

easy to do. Continue rinsing for several minutes. Get medical

attention if any discomfort continues.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Rinse mouth thoroughly with water. When in doubt or if symptoms are observed, get medical advice/attention.

Most important symptoms and effects,

both acute and delayed: The most important known symptoms and effects are described in

labelling (see Section 2) and/or in Section 11.

Indication of any immediate medical attention and special

treatment needed: No data available



Second PCR Reactions 1 thru 8 (Illumina®-P)

5 Firefighting measures

Extinguishing media

Suitable extinguishing media: Extinguish with water fog, alcohol-resistant foam, dry

chemical, or carbon dioxide.

Specific hazards arising from the chemical:

Carbon oxides (CO, CO2)

Sulfur oxides

Nitrogen oxides (NOx)

Special hazards arising from the substance or mixture:

Exposure to decomposition products may be a hazard to

health.

Advice for firefighters: In case of fire: Wear self-contained breathing apparatus.

6 Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Avoid inhalation of dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate untrained or unnecessary personnel to safe areas. For personal protection see Section 8.

Environmental precautions

Do not allow to enter surface water or drains. Discharge into the environment must be avoided. Prevent spread over a wide area (e.g., by containment or oil barriers).

Methods and materials for containment and cleaning up

Clear up spills immediately. Avoid creating dust. Clean any contaminated surfaces thoroughly. Mop up small spills. Dike area with sand or other inert material for large spills. Disposal should be in accordance with Section 13. Keep in suitable, closed containers for disposal.

References to other sections

Safe handling: See Section 7.

Personal Protective Equipment: See Section 8.

Disposal: See Section 13.



Second PCR Reactions 1 thru 8 (Illumina®-P)

7 Handling and storage

Precautions for safe handling

Advice on safe handling: Ensure adequate ventilation, especially in confined areas.

Smoking, eating, and drinking should be prohibited in application

area.

Normal measures for preventative fire protection.

Wear suitable protective clothing (See section 8).

Avoid contact with eyes or repeated or prolonged contact with skin.

Avoid inhalation.

Launder or discard contaminated clothing.

Advice on protection against fire and explosion:

See Section 5.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep in original or labeled container.

Keep container closed and store in cool, dry place.

Recommended storage temperature: 4°C/40°F.

Further information on storage conditions:

Protect against: Light. UV-radiation/sunlight. Extreme heat. Extreme

cold. Moisture.

Specific end use(s): Apart from the uses mentioned in Section 1 no other specific uses

are stipulated.



Second PCR Reactions 1 thru 8 (Illumina®-P)

8 Exposure controls/personal protection

Control parameters: Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters/ Permissible concentration	Basis
Dimethyl sulfoxide	67-68-5	TWA	250 ppm	US WEEL
Glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist- total dust)	10 mg/m3	OSHA P0
		TWA (Mist-respirable fraction)	5 mg/m3	OSHA P0

Exposure controls

Appropriate engineering controls:

General industrial hygiene practice. Provide adequate ventilation,

showers, and eyewash stations.

Protective and hygiene measures:

Always close containers tightly after the removal of product. Change

contaminated clothing. Wash hands after working with product.

When using do not eat, drink, or smoke.

Eye/face protection: Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN

166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use

proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of

contaminated gloves after use in accordance with applicable laws

and good laboratory practices. Wash and dry hands.

Respiratory protection: If necessary, use respirator as a backup to engineering controls. Use

respirators and approved under appropriate government standards such as OSHA 29 CFR 1910.134 or European Standard EN 149.

Environmental exposure controls:

Keep container tightly closed when not in use. Do not let product

enter drains.

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Second PCR Reactions 1 thru 8 (Illumina®-P)

9 Physical and chemical properties

Information on basic physical and chemical properties

Physical state Lyophilized powder

Color White

Odor Not determined Not available Hq Not determined **Melting point** Initial boiling point and boiling range Not applicable Flash point Not applicable Sustaining combustion Not available Lower explosive limits Not available Not available **Upper explosive limits** Not available Ignition temperature Oxidizing properties Not available Vapor pressure (at 20°C) Not applicable Density (at 20°C) Not available Water solubility Not determined Solubility in other solvents Not available Not determined **Auto-ignition temperature** Not determined **Decomposition temperature**



Second PCR Reactions 1 thru 8 (Illumina®-P)

10 Stability and reactivity

Reactivity: Stable under recommended use and storage conditions.

Hydroscopic.

Chemical tability: Stable under recommended use and storage conditions.

Hydroscopic.

Possibility of hazardous reactions:

No data available.

Conditions to avoid: Strong oxidizing agents

Incompatible materials: None known

Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO2), other possibly toxic smoke or fumes.

In the event of fire: see Section 5.

11 Toxicological information



Second PCR Reactions 1 thru 8 (Illumina®-P)

Information on toxicological effects

Toxicokinetic, metabolism and distribution: No information available.

Acute toxicity:

Inhalation: No data available Dermal: No data available

Components

Dimethyl sulfoxide:

Acute oral toxicity: LD50 Oral (Rat): 14,500 mg/kg

Acute inhalation toxicity: LC50 (Rat): 40,250 mg/l, 40250 ppm

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity: LD50 Dermal (Rabbit): > 5,000 mg/kg

Glycerol:

Acute oral toxicity: LD50 Oral (Rat): 12,000 mg/kg

Acute dermal toxicity: LD50 Dermal (Rabbit): 10,000 mg/kg

Irritation and corrosivity

Eye: May be irritating. Symptoms of eye irritation include pain, tearing, reddening, and swelling.

Skin: May be irritating. Symptoms include rash and redness.

Inhalation: May be irritating. Symptoms of respiratory irritation include runny nose, sore throat,

cough, chest discomfort, shortness of breath and reduced lung function.

Sensitizing effects

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

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

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

STOT-single exposure

No data available

STOT-repeated exposure

No data available

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Second PCR Reactions 1 thru 8 (Illumina®-P)

Aspiration hazard

No data available

Specific effects in experiment on an animal

No information available

12 Ecological information

Toxicity

No data available.

Components:

Dimethyl sulfoxide:

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 34,000 mg/l

Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 35,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other: EC50 (Daphnia pulex (Water flea)): 27,000 mg/l

aquatic invertebrates

Glycerol:

Toxicity to fish: LC0 (Leuciscus idus (Golden orfe)): > 250 mg/l

Exposure time: 48 h

Persistence and degradability

No data available

Bio accumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

No information available.

Other adverse effects

No information available.

Further information

Do not allow uncontrolled discharge of product into the environment.

13 Disposal considerations

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Second PCR Reactions 1 thru 8 (Illumina®-P)

Waste treatment methods

Waste generators must determine whether a waste is hazardous and consult local, state, and national hazardous was regulations to ensure complete accurate classification to endure proper disposal.

14 Transport information

DOT (US)

Not a hazardous material.

IMDG

Not a dangerous goods.

IATA

Not dangerous goods.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

See Section 8.

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

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 (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 hazards:

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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Second PCR Reactions 1 thru 8 (Illumina®-P)

16 Other information

Disclaimer:

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall IDT be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if IDT has been advised of the possibility of such damages.

Abbreviations and acronyms:

CAS Chemical Abstracts Service

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport

Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

N/A: not applicable

OSHA: Occupational Safety and Health Administration

PBT: Persistent bioaccumulative toxic

SARA: Superfund Amendments and Reauthorization Act

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.