SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 5:3 Revision Date 06/25/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name

DirectLoad™ PCR 100 bp Low Ladder

Product Number

D3687

Brand Sigma

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

Identified uses

: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company

Sigma-Aldrich

3050 Spruce Street SAINT LOUIS MO 63103

LISA

Telephone

: +1 800-325-5832 : +1 800-325-5052

Emergency telephone number

Hazardous components

Emergency Phone #

: (314) 776-6555

2. HAZARDS IDENTIFICATION

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.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Component		Classification	Concentration	
Glycerol				
CAS-No.	956-81-5		5 - 10 %	
EC-No.	200-289-5			
Edetic acid				
CAS-No.	60-00-4	Eye Irrit. 2A; H319	1 - 5 %	
EC-No.	200-449-4			
Index-No.	607-429-00-8			

For the full text of the H-Statements mentioned in this Section, see Section 16.

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4. FIRST AID MEASURES

Description of first aid measures

General advice

Move out of dangerous area.

If breathed in, move person into fresh air, If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution,

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

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,

Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx)

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal,

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

For precautions see section 2.2

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: -20 °C

Specific end use(s)

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

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Companents wi					
Component	CAS-No.	Value	Control parameters	Basis	
Glycerol	56-81-5	TWA	10 mg/m3	USA, OSHA - TABLE Z-1 Limits for Air Contaminants - 1910,1000	
		TWA	5 mg/m3	USA, OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	
		TWA	10 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
	Remarks	Upper Respiratory Tract irritation			
		See Appendix D - Substances with No Established RELs			
		TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
		TWA	15 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	

Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eve/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 glove's 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.

Body Protection

impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pН	no data available
e)	Melting point/freezing point	no data available
f)	Initial boiling point and boiling range	no data available

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h) Evapouration rate no data available Flammability (solid, gas) no data available Upper/lower no data available flammability or explosive limits Vapour pressure no data available Vapour density no data available m) Relative density no data available n) Water solubility no data available Partition coefficient: nno data available octanol/water Auto-ignition no data available temperature Decomposition no data available temperature Viscosity no data available s) Explosive properties no data available t) Oxidizing properties no data available

no data available

Other safety information

Flash point

no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

no data available

Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

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Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

NTP:

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.

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

carcinogen or potential carcinogen by ACGIH.

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.

Reproductive toxicity

no data available

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

RTECS: Not available

Kidney - Irregularities - Based on Human Evidence

Kidney - Irregularities - Based on Human Evidence (Glycerol)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

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

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

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14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

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

SARA 313 Components

SARA 313: 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, Chronic Health Hazard Massachusetts Right To Know Components

Glycerol Edetic acid	CAS-No. 56-81-5 60-00-4	Revision Date 2007-03-01 2007-03-01
Pennsylvania Right To Know Components	CAS-No.	Revision Date
Protein	56-81-5	2007-03-01

Edetic acid	60-00-4	2007-03-01
New Jersey Right To Know Components	CAS-No.	Revision Date
Protein Glycerol	56-81-5	2007-03-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

60-00-4

2007-03-01

16. OTHER INFORMATION

Edetic acid

Full text of H-Statements referred to under sections 2 and 3.

Eve Irrit. Eye irritation

Causes serious eye irritation. H319

HMIS Rating

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

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Health hazard: 2 Fire Hazard: 0 Reactivity Hazard: 0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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