

# MATERIAL SAFETY DATA SHEET

This product is not classified as hazardous based on Directive 67/548/EEC (as amended) or Directive 1999/45/EC of the Commission of the European Communities

## AMPLITAQ DNA POLYMERASE,LD

### 1. Identification of the substance/preparation and the company

#### 1.1 Identification of the substance or preparation:

**Synonyms:** AmpliTaq DNA POLYMERASE,LD  
AmpliTaQ DNA POLYMERASE,LD,with GeneAmp 10X PCR buffer  
AmpliTaQ DNA POLYMERASE,LD,with GeneAmp 10X PCR buffer II and MgCl<sub>2</sub> solution

**CAS no.** : N.A.  
**EC index no.** : N.A. **NFPA code** : 1-0-0(\*)  
**EINECS no.** : N.A. **Molecular weight** : N.A.  
**RTECS no.** : N.A. **Formula** : N.A.

#### 1.2 Company/undertaking identification:

Applied Biosystems Pty Ltd  
52 Rocco Drive  
Scoresby Vic  
Australia 3179

Tel: 03 9730 8600 Fax: 03 9730 8798

#### 1.3 Telephone number for emergency:

0011 1 703 527 3887  
(Can be a Reverse Charge Call by Calling 12550 from Australia)  
CHEMTREC (24 Hr Emergency Response Service Provider)  
1300 Wilson Blvd.  
Arlington, VA 22209  
USA

### 2. Composition/information on ingredients

Hazardous ingredients	CAS no.	Conc. in %	Hazard class.	Risks (R-phrases)
Glycerine	56-81-5	< 60	-	-
EDTA	60-00-4	< 1	Xi	36-52/53
Potassium chloride	7447-40-7	0-5	-	-
TRIS, hydrochloride	1185-53-1	0-5	Xi	36/37/38
Magnesium chloride	7786-30-3	< 0.2	Xi	36/37/38
Water and other low-hazard constituents (< 1%)	-	balance	-	-

### 3. Hazards identification

- No hazard classification

### 4. First aid measures

#### 4.1 Eye contact:

- Rinse immediately with plenty of water for 15 minutes  
- Consult a doctor/medical service if irritation persists

#### 4.2 Skin contact:

- Wash immediately with lots of water and soap for 15 minutes  
- Consult a doctor/medical service if irritation persists

#### 4.3 After inhalation:

- Remove the victim into fresh air  
- Unconscious: maintain adequate airway and respiration  
- Consult a doctor/medical service if breathing problems develop

#### 4.4 After ingestion:

- Immediately give lots of water to drink  
- Never give water to an unconscious person  
- Do not allow vomiting  
- Consult a doctor/medical service if you feel unwell



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MAK	:		mg/m <sup>3</sup>		ppm
MAC-TGG 8h	:	10 mist	mg/m <sup>3</sup>		
MAC-TGG 15 min.	:		mg/m <sup>3</sup>		
VME-8h	:	10 aerosol	mg/m <sup>3</sup>	-	ppm
VLE-15 min.	:	-	mg/m <sup>3</sup>	-	ppm
GWBB-8h	:	10 mist	mg/m <sup>3</sup>	-	ppm
GWK-15 min.	:	-	mg/m <sup>3</sup>	-	ppm

**8.3 Personal protection:**

**eye protection:**

- Safety glasses

**hand protection:**

- Gloves

**skin protection:**

- Protective clothing

**materials for protective clothing:**

- Natural rubber
- Neoprene
- Nitrile rubber

**respiratory protection:**

- On heating: gas mask

9.1 Appearance (at 20°C) : Liquid

9.2 Odour : N.D.

9.3 Colour : Colourless

9.4 pH value : 6/8

9.5 Boiling point/boiling range : 100 °C

9.6 Melting point/melting range : 0 °C

9.7 Flashpoint Flashpoint n (°C) T4 Tc 0 Tw (Flashpoint) Tj 60 07 0.15 Tc 0 olin9.4

Flashpoint

9.7

;respirator

9.3 Colour

:

9.7 Fla T8 148.5 0 TD 0.15 Tc 0 Tw (: ) Tj 6 0 TD 0 Tc14Tc 0.15 Tw ( n,t)4w (

Tw (: ) Tj 10.5 0 TD 0.15 Tc 0

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## AMPLITAQ DNA POLYMERASE,LD

### 11. Toxicological information

#### 11.1 Acute toxicity:

For glycerine:

LD50 oral rat	: 12600	mg/kg
LD50 dermal rat	: N.D.	mg/kg
LD50 dermal rabbit	: > 10000	mg/kg
LC50 inhalation rat	: N.D.	mg/l/4 h

#### 11.2 Chronic toxicity:

EC carc. cat.	: not listed
EC muta. cat.	: not listed
EC repr. cat.	: not listed

Carcinogenicity (TLV)	: not listed
Carcinogenicity (MAC)	: not listed
Carcinogenicity (VME)	: not listed
Carcinogenicity (MEL)	: not listed

Carcinogenicity (MAK)	: not listed
Mutagenicity (MAK)	: not listed
Teratogenicity (MAK)	: not listed

IARC classification : not listed

Obligatory medical control (ARAB-RGPT-Belgium Art. 124):  
group: I number: 20.1  
I 23.1

#### 11.3 Routes of exposure: ingestion, inhalation, eyes and skin

#### 11.4 Acute effects/symptoms:

**AFTER INHALATION**  
- Slight irritation

ON HEATING:  
- Irritation of the respiratory tract

**AFTER INGESTION**  
AFTER ABSORPTION OF HIGH QUANTITIES:  
- Irritation of the gastric/intestinal mucosa  
- Nausea  
- Vomiting  
- Diarrhoea

**AFTER SKIN CONTACT**  
- Slight irritation

ON HEATING:  
- Tingling/irritation of the skin

**AFTER EYE CONTACT**  
- Slight irritation

ON HEATING:  
- Irritation of the eye tissue

#### 11.5 Chronic effects:

- No data available

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### 12. Ecological information

#### 12.1 Mobility:

- Volatile organic compounds (VOC): N.A.
- Soluble in water

#### 12.2 Biodegradation:

- soil: T  $\frac{1}{2}$  : N.D. days  
BOD<sub>5</sub> : N.D. g O<sub>2</sub>/g substance  
COD : N.D. g O<sub>2</sub>/g substance
- water: - No data available

- #### 12.3 Bioaccumulation:
- log P<sub>ow</sub> : N.D.
  - BCF : N.D.

#### 12.4 Aquatic toxicity:

For glycerine:

- LC50 (96 h) : 54000 mg/l (SALMO GAIRDNERI/ONCORHYNCHUS MYKISS)
- LC50 (96 h) : >1000 mg/l ( )

#### 12.5 Other information:

- WGK: 1 (004)
- Effect on the ozone layer : N.D.
- Waste water purification : N.D.

### 13. Waste disposal considerations

#### 13.1 Provisions relating to waste:

- EWC code (75/442/EC): 16 05 03
- Waste material code (Flanders): 691
- Waste code (Germany): 59302

#### 13.2 Disposal methods:

- Dehydrate
- Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber

### 14. Transport information

#### 14.1 Proper shipping name: N.A.

#### 14.2 Transport by road/rail (ADR/RID): N.A.

Danger code: -  
Danger labels on tanks : -  
Danger labels on packages : -

#### 14.3 Substance identification number (UN number): N.A.

Packing: -

#### 14.4 Maritime transport (IMDG code): N.A.

EMS : -  
MFAG : -  
Marine pollutant : -

#### 14.5 Inland navigation (ADNR): N.A.

#### 14.6 Air freight (ICAO) : N.A.

Instruction "passenger" : -  
Instruction "cargo" : -

#### 14.7 Other information: not restricted for any mode of international transport

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## AMPLITAQ DNA POLYMERASE,LD

Classification according to directives 67/548/EEC and 1999/45/EC

**NOT REQUIRED ACCORDING TO AVAILABLE INFORMATION**

The information provided on this MSDS is correct to the best of our knowledge, information