

BIO-RAD

1 Identification of the substance/mixture and of the company/undertaking

- Product identifier
- Trade name: **PV92 Primer Mix for PCR (50x)**
- Catalog or product number: 9704810
- Application of the substance / the preparation Laboratory chemicals
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
Bio-Rad Laboratories, Life Science Group
2000 Alfred Nobel Drive
Hercules, California 94547
- Information department:
Technical services, customer support
sg_techserv_us@bio-rad.com
- Emergency telephone number:
1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT.
510-741-1000

2 Composition/Information on ingredients

- Chemical characterization: Substances
- CAS No. Description:
7732-18-5 water
- Identification number(s):
EC number: 231-791-2
- Description: Mixture of the substances listed below with non-hazardous additions.
- Listing of dangerous and non-hazardous components:
7732-18-5 water 50-100%
- Additional information
Contains added constituents of animal origin.
For the wording of the listed risk phrases refer to section 15.

3 Hazards identification

- Classification of the substance or mixture
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC not applicable
- Information concerning particular hazards for human and environment:
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- Classification system:
The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.
The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.
- Label elements
- Labelling according to EU guidelines:
Observe the general safety regulations when handling chemicals

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USA

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Trade name: PV92 Primer Mix for PCR (50x)

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The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GeStoffV).
Safety phrases:
60 This material and its container must be disposed of as hazardous waste.

4 First aid measures

- General information No special measures required.
- After inhalation Supply fresh air, consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.
- After eye contact Rinse opened eye for several minutes under running water.
- After swallowing Induce vomiting and call for medical help.

5 Firefighting measures

- Suitable extinguishing agents
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective equipment (See section 8). Keep unprotected persons away.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections
No dangerous substances are released.
- See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- Handling
Precautions for safe handling No special measures required.
- Information about protection against explosions and fires: No special measures required.
- Storage
Requirements to be met by storerooms and receptacles: According to product specification
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data, see item 7.

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- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures** The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:** Protective gloves.
- **Material of gloves:** Synthetic gloves
- **Penetration time of glove material**
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

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9 Physical and chemical properties

General Information	
· Appearance:	Liquid
· Form:	Colorless
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	0°C
· Melting point/Melting range:	undetermined
· Boiling point/Boiling range:	Not applicable
· Flash point:	Not applicable.
· Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	Not determined.
· Decomposition temperature:	Product is not selfigniting.
· Auto igniting:	Product does not present an explosion hazard.
· Danger of explosion:	Not determined.
· Explosion limits:	Not determined.
· Lower:	23 hPa
· Upper:	1 g/cm ³
· Vapor pressure at 20°C:	Not determined.
· Density at 20°C:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	Fully miscible
· Water:	
· Segregation coefficient (n-octanol/water):	Not determined.

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· Viscosity:	Not determined.
· dynamic:	Not determined.
· kinematic:	
· Solvent content:	0.0 %
· Organic solvents:	99.7 %
· Water:	
· Solids content:	0.3 %
· Other information	No further relevant information available.

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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Target organs:** Not applicable.

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Hand over to hazardous waste disposers.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Material Safety Data Sheet

Reviewed on 04/12/2012

Trade name: PV92 Primer Mix for PCR (50x)

- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

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14 Transport information

UN-Number	Void
DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	Void
DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	Void
DOT, ADR, ADN, IMDG, IATA	Void
Class	Void
Packing group	Void
DOT, ADR, IMDG, IATA	Void
Environmental hazards:	No
Marine pollutant:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.

15 Regulatory information

SARA (Superfund Amendments and Reauthorization Act of 1986 - USA)
Section 302/304 (40CFR355.30 / 40CFR355.40):
None of the ingredients is listed.
Section 313 (40CFR372.65):
None of the ingredients is listed.
TSCA (Toxic Substances Control Act):
All ingredients are listed.
Carcinogenic categories
EPA (Environmental Protection Agency)
None of the ingredients is listed.
IARC (International Agency for Research on Cancer)
None of the ingredients is listed.
NTP (National Toxicology Program)
None of the ingredients is listed.
TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.

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Material Safety Data Sheet

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MAK (German Maximum Workplace Concentration)
None of the ingredients is listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

- National regulations
- Water hazard class: Generally not hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: Environmental Health and Safety.

Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547. 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547. 1(510) 724-7000

* Data compared to the previous version altered.

USA