

## Material Safety Data Sheet

Printing date 05/11/2012

Reviewed on 10/27/2011

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

- Product identifier
- Trade name: **Crime Scene Investigator Suspect A DNA**
- Catalog or product number: 10001504, 10002178
- 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 (510)741-1000
- 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
- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with non-hazardous additions.
- Listing of dangerous and non-hazardous components: Void
- 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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The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

- Safety phrases:  
35 This material and its container must be disposed of in a safe way.

## 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  
CO<sub>2</sub>, 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: Dilute with plenty of water.
- Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.
- 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.

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## 8 Exposure controls/personal protection

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

## 9 Physical and chemical properties

- General Information
- Appearance:
  - Form: Liquid
  - Color: Colorless
  - Odor: Odorless
  - Odour threshold: Not determined.
- pH-value at 20°C: 7.6
- Change in condition
  - Melting point/Melting range: 0°C
  - Boiling point/Boiling range: 100°C
- Flash point: Not applicable
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature:
- Decomposition temperature: Not determined.
- Auto igniting: Product is not selfigniting.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- Vapor pressure at 20°C: 23 hPa
- Density at 20°C: 1 g/cm<sup>3</sup>
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.

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- Solubility in / Miscibility with Water: Fully miscible
- Segregation coefficient (n-octanol/water): Not determined.
- Viscosity:
  - dynamic: Not determined.
  - kinematic: Not determined.
- Solvent content:
  - Organic solvents: 0.0 %
  - Water: 99.8 %
- Solids content: 0.1 %
- Other information: No further relevant information available.

## 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.

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## 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.

## • Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

## 14 Transport information

## • UN-Number

• DOT, ADR, ADN, IMDG, IATA

Void

## • UN proper shipping name

• DOT, ADR, ADN, IMDG, IATA

Void

## • Transport hazard class(es)

• DOT, ADR, ADN, IMDG, IATA

## • Class

Void

## • Packing group

• DOT, ADR, IMDG, IATA

Void

## • Environmental hazards:

• Marine pollutant:

No

## • Special precautions for user

Not applicable.

## • Transport in bulk according to Annex II of MARPOL73/78 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):

7732-18-5 water

77-86-1 Tris(hydroxymethyl)aminomethane

## • Carcinogenic categories

## • EPA (Environmental Protection Agency)

None of the ingredients is listed.

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## • 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.

## • 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 &amp; 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.

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