Material Safety Data Sheet
According to 91/155 EEC

1 Identification of substance:

- Product details:
  - Trade name: Calf Thymus DNA
  - Article number: 1702482, 9703295
  - Application of the substance / the preparation: Laboratory chemicals

- Manufacturer/Supplier:
  Bio-Rad Laboratories S.A.-N.V.
  Begoniastraat 5
  B-9810 Nazareth-Eke
  Belgium

- Information department: Technical services, customer support.
- Emergency information: 09-385-5511

2 Composition/Data on components:

- Chemical characterization:
  - CAS No. Description:
    7732-18-5 water
  - Identification number(s):
  - EINECS Number: 231-791-2

3 Hazards identification

- Hazard description: not applicable
- Information pertaining to particular dangers for man and environment: not applicable

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 Fire fighting measures

- Suitable extinguishing agents
  CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Protective equipment: No special measures required.

6 Accidental release measures

- Person-related safety precautions: Not required.
- Measures for environmental protection: No special measures required.
- Measures for cleaning/collecting:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Additional information: No dangerous substances are released.

7 Handling and storage

Handling
Information for safe handling:
No special measures required.
No special precautions are necessary if used correctly.
Information about protection against explosions and fires: No special measures required.

Storage
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: None.

8 Exposure controls and 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: Not required.
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 should be adhered to when handling chemicals.
Breathing equipment: Not required.
Protection of hands: Synthetic gloves
Material of gloves: Synthetic gloves
Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties:

General Information
Form: Fluid
Colour: Colourless
Odour: Odourless

Change in condition
Melting point/Melting range: 0°C
Boiling point/Boiling range: 100°C

Flash point: Not applicable
Danger of explosion: Product does not present an explosion hazard.
Vapour pressure at 20°C: 23 hPa
Density at 20°C: 1 g/cm³
Trade name: Calf Thymus DNA

| Solubility in / Miscibility with |  |
| Water: | Fully miscible |
| Not miscible or difficult to mix |

| pH-value at 20°C: | 8.0 |
| Organic solvents: | 0.0 % |
| Water: | 99.7 % |
| Solids content: | 0.3 % |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
  - **Primary irritant effect:**
    - **on the skin:** No irritant effect.
    - **on the eye:** No irritating effect.
  - **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
  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. The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information:

- **General notes:** Generally not hazardous for water.

13 Disposal considerations

- **Product:**
  - **Recommendation:**
    Can be disposed of with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
- **Uncleaned packagings:**
  - **Recommendation:** Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
Trade name: Calf Thymus DNA

15 Regulations

· Markings according to EU guidelines:
  Observe the general safety regulations when handling chemicals
  The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

· Safety phrases:
  60 This material and its container must be disposed of as hazardous waste.

· 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