Material Safety Data Sheet

Printing date 10/13/2003               Reviewed on 10/13/2003

1 Identification of substance:
   o Product details:
     o Trade name: Fast Blast DNA Staining Solution
     o Catalog or product number: 1660420, 9704664, 9704659
     o Application of the substance / the preparation Laboratory chemicals
     o Manufacturer/Supplier: Bio-Rad Laboratories, Life Science Group
       2000 Alfred Nobel Drive
       Hercules, California 94547                      (510)741-1000
     o Information department: Technical services, customer support.
     o Emergency information: 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 components:
   o Chemical characterization:
     CAS No. Description:
     7732-18-5 water
   o Identification number(s):
     o EINECS Number: 231-791-2

3 Hazards identification
   o Information pertaining to particular dangers for man and environment
     • not applicable
   o Classification system
     The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.
   o NFPA ratings (scale 0-4)
     Health = 0
     Fire = 0
     Reactivity = 0
   o OSHA hazard ratings
     o Health 0: Minimal Hazard.
**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/collection:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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 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: Goggles recommended during refilling.

9 Physical and chemical properties:

General Information

Form: liquid
Color: Dark blue
Odor: Odorless

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.

Vapor pressure: at 20 °C 23 hPa
Density: at 20 °C 1 g/cm³

Solubility in / Miscibility with
Water: Soluble

pH-value: at 20 °C 7.7
Organic solvents: 0.0 %
Water: 95-100 %

Solids content: 0.1-0.5 %

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 irritant 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.

Target organs: Not applicable.

12 Ecological information:

General notes: Generally not hazardous for water.

13 Disposal considerations

Product:
Recommendation: Hand over to hazardous waste disposers.

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

14 Transport information

DOT regulations:
Hazard class: -

Land transport ADR/RID (cross-border)
ADR/RID class: -

Maritime transport IMDG:
IMDG Class: -
Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class: -
Transport/Additional information:
Not dangerous according to the above specifications.

15 Regulations

SARA (Superfund Amendments and Reauthorization Act of 1986 - USA)

Section 302/304 (40CFR355.30 / 40CFR355.40):
Substance not listed.

Section 313 (40CFR372.65):
Substance is not listed.

TSCA (Toxic Substances Control Act):
Substance is listed.

California Proposition 65:
Chemicals known to cause cancer:
Substance is not listed.
Chemicals known to cause reproductive toxicity:
Substance is not listed.

Cancerogenity categories
EPA (Environmental Protection Agency)
Substance is not listed.

IARC (International Agency for Research on Cancer)
Substance is not listed.

NTP (National Toxicology Program)
Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)
Substance is not listed.

MAK (German Maximum Workplace Concentration)
Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)
Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration)
Substance is not listed.

Markings according to EU guidelines:
The substance is not subject to classification according to EU lists and other sources of literature known to us.
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