

Kit ingredients

Product: Fluorescent Ladder (CXR), 60-400 Bases

Product code: DG6221

Substance number	Description	Count	Symbols
DG622	Fluorescent Ladder (CXR)	1	-
DV435	Blue Dextran Loading Solution	1	T
DV437	Bromophenol Blue Loading Solution	1	T

Safety Data Sheet
According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

1 Identification of substance

Trade name: *Fluorescent Ladder (CXR)*

Article number: DG622

Application of the substance / the preparation: *Laboratory chemicals*

Manufacturer/Supplier:

*Promega Corporation
2800 Woods Hollow Road
Madison, WI 53711
U.S.A.
1-608-274-4330
1-800-356-9526*

MSDS author: *Regulatory.Affairs@promega.com*

Further information obtainable from:

*Promega AG
Wallisellenstrasse 55
8600 Dübendorf
SWITZERLAND
Branch Office
Marketing Area: Switzerland
Tel: (41) 044 878 90 00
Fax: (41) 044 878 90 10
E-mail Address: *ch_custserv@promega.com*
Web Address: *www.promega.com/ch/**

MSDS author: *Regulatory.Affairs@promega.com*

Information in case of emergency:

*For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at 1-800-424-9300
For call originating outside the United States dial 001-703-527-3887*

2 Composition/information on ingredients

Chemical characterization

Description: *Mixture of substances listed below with nonhazardous additions.*

Components: *Void*

Additional information: *For the wording of the listed risk phrases refer to section 16.*

3 Hazards identification

Hazard description: *not applicable*

Information concerning to particular hazards to man 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.

(Contd. on page 2)

Safety Data Sheet

According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Fluorescent Ladder (CXR)

(Contd. of page 1)

Classification system:

The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

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: If symptoms persist consult doctor.

5 Fire fighting measures

Suitable extinguishing agents:

CO₂, 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: Dilute with plenty of water.

Measures for cleaning/collecting:

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.

Information about fire - and explosion protection: The product is not flammable

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 gear

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

Ingredients 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 valid during the making were used as basis.

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

(Contd. on page 3)

Safety Data Sheet

According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Fluorescent Ladder (CXR)

(Contd. of page 2)

Protection of hands:

Protective gloves.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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:	Fluid
Colour:	Colourless
Odour:	Characteristic

Change in condition

Melting point/Melting range: 0°C

Boiling point/Boiling range: 100°C

Flash point: Not applicable**Self-igniting:** Product is not selfigniting.**Danger of explosion:** Product does not present an explosion hazard.**Density at 20°C:** 1 g/cm³**Solubility in / Miscibility with****Water:** Fully miscible**pH-value at 20°C:** 7**Solvent content:****Organic solvents:** 0,0 %**Water:** 99,9 %**Solids content:** 10,0 %

10 Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Materials to be avoided:

Dangerous reactions: No dangerous reactions known

Dangerous decomposition products: No dangerous decomposition products known

11 Toxicological information

Acute toxicity:

Primary irritant effect:

on the skin: No irritant effect.

(Contd. on page 4)

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Safety Data Sheet

According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Fluorescent Ladder (CXR)

(Contd. of page 3)

on the eye: Irritating 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 to our experience and the information provided to us.

12 Ecological information

Additional ecological information:

General notes: Generally not hazardous for water.

13 Disposal considerations

Product:

Recommendation

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

Land transport ADR/RID (cross-border) Not regulated

ADR/RID class: -

UN-Number: Not regulated

Maritime transport IMDG:

IMDG Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

15 Regulations

Labelling 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 (German GefStoffV).

National regulations

Waterhazard class: Generally not hazardous for water.

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(Contd. on page 5)

Safety Data Sheet
According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Fluorescent Ladder (CXR)

(Contd. of page 4)

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:

Promega Corporation

Safety Department

2800 Woods Hollow Road

Madison, WI 53711

U.S.A.

CH

Safety Data Sheet
According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

1 Identification of substance

Trade name: Blue Dextran Loading Solution

Article number: DV435

Application of the substance / the preparation: Laboratory chemicals

Manufacturer/Supplier:

Promega Corporation
2800 Woods Hollow Road
Madison, WI 53711
U.S.A.
1-608-274-4330
1-800-356-9526

MSDS author: Regulatory.Affairs@promega.com

Further information obtainable from:

Promega AG
Wallisellenstrasse 55
8600 Dübendorf
SWITZERLAND
Branch Office
Marketing Area: Switzerland
Tel: (41) 044 878 90 00
Fax: (41) 044 878 90 10
E-mail Address: ch_custserv@promega.com
Web Address: www.promega.com/ch/

MSDS author: Regulatory.Affairs@promega.com

Information in case of emergency:



For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at 1-800-424-9300
For call originating outside the United States dial 001-703-527-3887

2 Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Components:

CAS: 75-12-7	formamide	 T,  Xi; R 61-36/38-48/20/21/22	75-100%
EINECS: 200-842-0			

Additional information: For the wording of the listed risk phrases refer to section 16.

CH

(Contd. on page 2)

Safety Data Sheet

According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Blue Dextran Loading Solution

(Contd. of page 1)

3 Hazards identification

Hazard description:



T Toxic

Information concerning to particular hazards to man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 61 May cause harm to the unborn child.

R 36/38 Irritating to eyes and skin.

R 48/20/21/22 Also harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

Classification system:

The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

4 First aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with soap, water and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

5 Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

6 Accidental release measures

Person-related safety precautions: Wear protective clothing.

Measures for environmental protection:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

Handling

Information for safe handling:

Keep receptacles tightly sealed.

(Contd. on page 3)

Safety Data Sheet

According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Blue Dextran Loading Solution

(Contd. of page 2)

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
No special precautions are necessary if used correctly.
Information about fire - and explosion protection: 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: Keep receptacle tightly sealed.

8 Exposure controls and personal protection gear

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

Ingredients with limit values that require monitoring at the workplace:

75-12-7 formamide

MAK 18 mg/m ³ , 10 ppm

Additional information: The lists valid during the making were used as basis.

Personal protective equipment**General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Pregnant women should strictly avoid inhalation or skin contact.
Do not eat or drink while working.
Clean skin thoroughly immediately after handling the product.
Ensure that washing facilities are available at the work place.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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: Tightly sealed goggles.

9 Physical and chemical properties

General Information

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic

(Contd. on page 4)

CH

Safety Data Sheet

According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: **Blue Dextran Loading Solution**

(Contd. of page 3)

Change in condition**Melting point/Melting range:** undetermined**Boiling point/Boiling range:** undetermined**Flash point:** > 100°C**Self-igniting:** Product is not selfigniting.**Danger of explosion:** Product does not present an explosion hazard.**Vapour pressure at 20°C:** 0 hPa**Density at 20°C:** 1,121 g/cm³**Solubility in / Miscibility with****Water:** Fully miscible**Solvent content:****Organic solvents:** 88,2 %**Water:** 10,1 %**Solids content:** 1,7 %**10 Stability and reactivity****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Materials to be avoided:****Dangerous reactions:** No dangerous reactions known**Dangerous decomposition products:** No dangerous decomposition products known**11 Toxicological information****Acute toxicity:****LD/LC50 values relevant for classification:****75-12-7 formamide**

Oral LD50 5570 mg/kg (Rat)

Irritation of eyes acute 100 mg (Rabbit)

Primary irritant effect:**on the skin:** Irritant to skin and mucous membranes.**on the eye:** Irritating effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Irritant

12 Ecological information**Additional ecological information:****General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

(Contd. on page 5)

Safety Data Sheet

According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Blue Dextran Loading Solution

(Contd. of page 4)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

Product:

Recommendation

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

Land transport ADR/RID (cross-border) Not regulated

ADR/RID class: -
UN-Number: Not regulated

Maritime transport IMDG:

IMDG Class: -
Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

15 Regulations

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

Hazard-determining components of labelling:

formamide

Risk phrases:

61 May cause harm to the unborn child.
 36/38 Irritating to eyes and skin.
 48/20/21/22 Also harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

Safety phrases:

20 When using do not eat or drink.
 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 60 This material and its container must be disposed of as hazardous waste.

(Contd. on page 6)

CH

Safety Data Sheet
According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Blue Dextran Loading Solution

(Contd. of page 5)

National regulations

Class	Share in %
Water	10,1
NK	88,3

Waterhazard class: Water hazard class 1 (Self-assessment): slightly 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.

Relevant R-phrases

36/38 Irritating to eyes and skin.

48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

61 May cause harm to the unborn child.

Department issuing MSDS:

Promega Corporation

Safety Department

2800 Woods Hollow Road

Madison, WI 53711

U.S.A.

CH

Safety Data Sheet
According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

1 Identification of substance

Trade name: Bromophenol Blue Loading Solution

Article number: DV437

Application of the substance / the preparation: Laboratory chemicals

Manufacturer/Supplier:

Promega Corporation
2800 Woods Hollow Road
Madison, WI 53711
U.S.A.
1-608-274-4330
1-800-356-9526

MSDS author: Regulatory.Affairs@promega.com

Further information obtainable from:

Promega AG
Wallisellenstrasse 55
8600 Dübendorf
SWITZERLAND
Branch Office
Marketing Area: Switzerland
Tel: (41) 044 878 90 00
Fax: (41) 044 878 90 10
E-mail Address: ch_custserv@promega.com
Web Address: www.promega.com/ch/

MSDS author: Regulatory.Affairs@promega.com

Information in case of emergency:



For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at 1-800-424-9300
For call originating outside the United States dial 001-703-527-3887

2 Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Components:

CAS: 75-12-7	formamide	 T,  Xi; R 61-36/38-48/20/21/22	75-100%
EINECS: 200-842-0			

Additional information: For the wording of the listed risk phrases refer to section 16.

CH

(Contd. on page 2)

Safety Data Sheet

According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Bromophenol Blue Loading Solution

(Contd. of page 1)

3 Hazards identification

Hazard description:



T Toxic

Information concerning to particular hazards to man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 61 May cause harm to the unborn child.

R 36/38 Irritating to eyes and skin.

R 48/20/21/22 Also harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

Classification system:

The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

4 First aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with soap, water and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

5 Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

6 Accidental release measures

Person-related safety precautions: Wear protective clothing.

Measures for environmental protection:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

Handling

Information for safe handling:

Keep receptacles tightly sealed.

(Contd. on page 3)

Safety Data Sheet

According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Bromophenol Blue Loading Solution

(Contd. of page 2)

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

No special precautions are necessary if used correctly.

Information about fire - and explosion protection: 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: Keep receptacle tightly sealed.

8 Exposure controls and personal protection gear

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

Ingredients with limit values that require monitoring at the workplace:

75-12-7 formamide

MAK 18 mg/m³, 10 ppm

Additional information: The lists valid during the making were used as basis.

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

Do not eat or drink while working.

Clean skin thoroughly immediately after handling the product.

Ensure that washing facilities are available at the work place.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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: Tightly sealed goggles.

9 Physical and chemical properties

General Information

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic

(Contd. on page 4)

Safety Data Sheet

According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Bromophenol Blue Loading Solution

(Contd. of page 3)

Change in condition**Melting point/Melting range:** 2,5°C**Boiling point/Boiling range:** 210°C**Flash point:** > 100°C**Self-igniting:** Product is not selfigniting.**Danger of explosion:** Product does not present an explosion hazard.**Vapour pressure at 20°C:** 0,03 hPa**Density at 20°C:** 1,1339 g/cm³**Solubility in / Miscibility with****Water:** Fully miscible**Solvent content:****Organic solvents:** 95,0 %**Water:** 4,9 %**Solids content:** 0,1 %

10 Stability and reactivity

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

11 Toxicological information

Acute toxicity:**LD/LC50 values relevant for classification:****75-12-7 formamide**

Oral	LD50	5570 mg/kg (Rat)
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Irritation of eyes	acute	100 mg (Rabbit)
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Primary irritant effect:**on the skin:** Irritant to skin and mucous membranes.**on the eye:** Irritating effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Irritant

12 Ecological information

Additional ecological information:**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

(Contd. on page 5)

CH

Safety Data Sheet

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Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Bromophenol Blue Loading Solution

(Contd. of page 4)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

Product:

Recommendation

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

Land transport ADR/RID (cross-border) Not regulated

ADR/RID class: -
UN-Number: Not regulated

Maritime transport IMDG:

IMDG Class: -
Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

15 Regulations

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

Hazard-determining components of labelling:

formamide

Risk phrases:

61 May cause harm to the unborn child.
36/38 Irritating to eyes and skin.
48/20/21/22 Also harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

Safety phrases:

20 When using do not eat or drink.
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
60 This material and its container must be disposed of as hazardous waste.

(Contd. on page 6)

CH

Safety Data Sheet

According to 91/155 EEC

Printing date 26.06.2010

Revision: 26.06.2010

Trade name: Bromophenol Blue Loading Solution

(Contd. of page 5)

National regulations

Class	Share in %
Water	4,9
NK	95,0

Waterhazard class: Water hazard class 1 (Self-assessment): slightly 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.

Relevant R-phrases

36/38 Irritating to eyes and skin.

48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

61 May cause harm to the unborn child.

Department issuing MSDS:

Promega Corporation

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